JACOBSEN®
A Textron Company

4118020-GB (rev.0)

# Parts and Maintenance Manual

## JACOBSEN® *HR-5111 Rotary Mower with ROPS*

Model: 69158     Engine: Kubota V2203
Serial Number 1651 and Up

WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

GB

RJ 100 / 092003

# To Order Parts

1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate located on the left rear frame of your product.
4. Order by the quantity desired, the part number, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Textron Turf Care And Specialty Products Dealer.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

**Use of other than Textron Turf Care And Specialty Products authorized parts and accessories will void the warranty.**

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Litho in U.S.A. 1-2002

# Suggested Stocking Guide

To Keep your Equipment fully operational and productive, Textron Turf Care And Specialty Products suggests you maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids.

To order any of the following material:

1. Write your full name and complete address on your order form.
2. Explain where and how to make shipment:

   ❑ UPS ❑ Regular Mail

   ❑ Overnight ❑ 2nd Day

3. Order by the quantity desired, the part number, and the description of the part.
4. Send or bring the order to your authorized Textron Turf Care and Specialty Products Dealer.

# Service Parts

| Qty. | Part No. | Description | Qty. | Part No. | Description |
|---|---|---|---|---|---|
| | 555773 | Engine Oil Filter | | 555771 | Hydraulic Return Oil Filter |
| | 549633 | Engine Air Filter | | 2811255 | Hydraulic Charge Oil FIlter |
| | 557619 | Engine Fuel Filter | | | |

# Service Support Material

| Qty. | Part No. | Description |
|---|---|---|
| | 4108021 | Safety & Operation Manual |
| | 4101820 | Parts & Maintenance |
| | 4104842 | Kubota Engine Parts Manual |
| | 5001553 | Video, Operator Training |

| Qty. | Description |
|---|---|
| | Service Manual |

# How To Use This Manual

### Abbreviations

**N/S** - Not serviced seperately, can only be obtained by ordering main component or kit.
**AR** -Variable quantity or measurement is required to obtain correct adjustment.
**Symbols** such as ●, next to the item number, indicate that a note exists which contain additional information important in ordering that part.

### Bulleted Items

Bulleted items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separetely or as part of the main component.

| Item | Part No. | Qty | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| ● 1 | 123456 | 1 | Mount, Valve | *Indicates a piece part* |
| 2 | 789012 | 1 | Valve, Lift | *Includes Items 2 and 3* |
| 3 | 345678 | 1 | • Handle | *Serviced part included with Item 2* |
| 4 | N/S | 1 | • Seal Kit | *Non serviced part included with Item 2* |
| 5 | 901234 | 1 | Screw, 1/4-20 x 2” Hex Head | |

# 1 SAFETY

## 1.1 OPERATING SAFETY

**WARNING**

**EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.**
Familiarize yourself with the location and proper use of all controls. Inexperienced operator's should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Safety and Operation Manual, engine manual, accessories and attachments). If the operator can not read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears hands and feet. Operate the machine only in daylight or in good artificial light.
6. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.) Enter a new area cautiously. Stay alert for hidden hazards.
7. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders and damage to property.
8. Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors or other protective devices securely fastened in place.
9. Never disconnect or bypass any switch.
10. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.
11. Fuel is highly flammable, handle with care.
12. Keep the engine clean. Allow the engine to cool before storing and always remove the ignition key.
13. Disengage all drives and engage parking brake before starting the engine (motor). Start the engine only when sitting in operator's seat, never while standing beside the unit.
14. Equipment must comply with the latest federal, state, and local requirements when driven or transported on public roads.
15. Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
16. Operate the machine up and down the face of the slopes (vertically), not across the face (horizontally).
17. To prevent tipping or loss of control, do not start or stop suddenly; reduce speed when making sharp turns. Use caution when changing direction on slopes.
18. Always use the seat belt when operating tractors equipped with a ROPS.

    *Never use a seat belt when operating tractors without a ROPS.*
19. Keep legs, arms and body inside the seating compartment while the vehicle is in motion.

***This machine is to be operated and maintained as specified in this manual and is intended for the professional maintenance of specialized turf grasses. It is not intended for use on rough terrain or long grasses.***

## 1.2 IMPORTANT SAFETY NOTES

*This safety alert symbol is used to alert you to potential hazards.*

**DANGER** - Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

**WARNING** - Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

**CAUTION** - Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

*For pictoral clarity, some illustrations in this manual may show shields, guards or plates open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place*

**WARNING**

The Interlock system on this tractor prevents the tractor from starting unless the brake lever is engaged, mower switch is off and traction pedal is in neutral. The system will stop the engine if the operator leaves the seat without engaging the parking brake or setting the mower switch off.

NEVER operate tractor unless the Interlock system is working.

**WARNING**

1. Before leaving the operator's position for any reason:
   a. Return traction pedal to neutral.
   b. Disengage all drives.
   c. Lower all implements to the ground.
   d. Engage parking brake.
   e. Stop engine and remove the ignition key.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Never carry passengers, unless a seat is provided for them.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Textron Turf Care And Specialty Products Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service. **Use of other than original or authorized Textron Turf Care And Specialty Products parts and Accessories will void the warranty.**

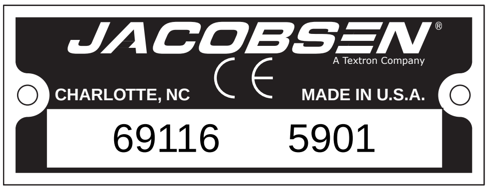
# 2 SPECIFICATIONS

## 2.1 PRODUCT IDENTIFICATION

69158 .............................. HR-5111 with ROPS.

Serial Number ................ An identification plate, like the one shown, listing the serial number, is attached to the frame of the tractor near the center lift arm mount.

Always provide the serial number of the unit when ordering replacement parts or requesting service information.




| Product | EEC Sound Power | Sound Pressure Level Operator Ear | Vibration M/S² | |
|---|---|---|---|---|
| | | | Arms | Body |
| 69158 | 105 dba | 90 dba | 4.6 | 1.5 |

## 2.2 ENGINE

Make ............................... Kubota
Model .............................. V2203-B
Horsepower .................... 49 hp (36.6 kW) @2800 rpm

**Note:** *Actual sustained horsepower will likely be lower than listed in specifications due to operating limitations and enviromental factors*

Displacement .................. 134.1 cu. In. (2197 cc)
Bore and Stroke .............. 3.43 x 3.64 in. (87 x 92 mm)
Compression Ration ....... 22:1
Torque ............................. 109 ft. lbs. (147.8 Nm) @ 1200 rpm
Fuel:
  Type .......................... No. 2 Diesel
  Rating ....................... Min. Cetane rating 45
  Capacity .................... 20 U.S. Gal. (75.7 liters)

Fuel Injection Pump........ Bosch K type Mini Pump
Ignition Timing ................ 18° before TC
Governor......................... Centrifugal ball mechanical
  Low Idle .................. 900 RPM
  High Idle .................. 2400 RPM
Lubrication:
  Capacity.................... 10 quarts (9.5 liter) with filter
  Type.......................... 10W30 with dye
  API Classification ..... CD, CE
Air Filter .......................... Dry type with evacuator valve and service indicator.
Alternator ........................ 45 amp
Cooling System .............. Liquid Cooled
  Capacity...................... 8 qt. (7.6 l) 50/50 water / ethylene glycol mix
  Thermostat ............... 185° F (95° C)

## 2.3 TRACTOR

Tires:
  Front ......................... 26 x 12-12, 6 Ply
  Rear .......................... 23 x 10.5-12, 4 Ply
Pressure:
  Front ......................... 16-20 psi (110-138 kPa)
  Rear .......................... 8-10 psi (55-69 kPa)
Battery:
  Type .......................... 12 Volt Lead/Acid
  Group ........................ AABM #75NF
  Rating ....................... 750 CCA at 0° F (-18° C)
Service Brake ................. Pedal operated hydraulic disc brakes on front wheels.
Parking Brake ................. Independent disc on drive line, hand lever actuated.

Differential ...................... Single speed, differential lock electro-hydraulically activated

Speed:
- Forward (2WD) ........ 0 - 15 mph (24.1 kph)
- Forward (4WD) ......... 0-8.4 mph (0-13.5 km/h)
- Reverse .................... 0 - 6 mph (9.6 kph)

Hydraulic System:
Capacity .......................... 17 U.S. gal. (64.3 liters)
Fluid Type .......................... 10W30
Return Filter .................... Full Flow 10 micron
Charge Filter ................... Full Flow 10 micron
Steering ......................... Power steering, rear wheels
Mower Lift ....................... 3 spool manual valve and double acting cylinders
PTO Drive ....................... Fixed Flow Hydraulic

## 2.4 CUTTING UNITS

Type ............................... Three Fully Floating Decks
Width:
- Front Deck ................ 64 in. (1625 mm)
- Wing Decks ............... 42 in. (1067 mm)

Cutting Width:
- Front and both Wings 134 in. (3403 mm)
- Front and one wing ... 99 in. (2514 mm)
- Front only .................. 64 in. (1625 mm)

Drive .............................. Hydraulic Motors
Cutting Height ................. 1.00-5.5 in (25 - 140 mm)

## 2.5 WEIGHTS AND DIMENSIONS

| **Dimensions:** | **Inches** | **(mm)** |
|---|---|---|
| Length | 144 | (3657) |
| Height (ROPS) | 81 | (2057) |
| Wheel Base | 67.5 | (1714) |
| Width - Transport Position | 93.5 | (2375) |
| Width - Mowing Position | 139 | (3530) |
| Ground Clearance | 8 | (203) |
| Turning Radius | 33 | (838) |

**Weights:** **Lbs.** **(kg)**
Fuel tank filled and cutting units installed. Less Operator
69158 ........................................................ 3780 (1714)

## 2.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Textron Turf Care And Specialty Products Dealer for a complete listing of accessories and attachments.

**⚠ CAUTION**

Use of other than Textron Turf Care And Specialty Products authorized parts and accessories may cause personal injury or damage to the equipment and will void the warranty

**Accessories**

| | |
|---|---|
| Air Blow Gun | JAC5098 |
| Orange Touch-up Paint (12 oz. spray) | 554598 |
| Mulcher Kit | 69123 |
| Snow Blower Mounting Kit | 69139 |
| Rear Wheel Weights | 69134 |
| Canopy / Sunshade | 67814 |
| Dual Work Light | 69128 |
| Blade Balancer | JAC5016 |
| Cab/Cab Accessories | ● |
| Brush/Sweeper | ◆ |
| Snow Blower | ▲ |

● Contact: Jodale Perry Corporation
Box 990, 300 Route 100
Morden, Manitoba, Canada R6M 1A8
Phone: (204) 822-9100
Fax: (204) 822-9111

◆ Contact: Loftness Specialized Equipment, Inc.
South Highway 4
Hector, MN 55342
Phone 800 . 848 . 7624
ATTN Doug Haley

# 2 SPECIFICATIONS

**Support Literature**

Safety & Operation Manual...................................... 4118021
Parts & Maintenance Manual.................................... 4118020
Diesel Engine Parts Catalog.....................................4104842
Operator Training Video (English) ...........................5001553
Operator Training Video (Spanish) ..........................5001557
Service & Repair Manual ............................. PT-SRI-HR5111

▲ Contact: M-B Companies, Inc.
1200 S. Park Street, Box 148
Chilton, WI 53014
Phone: (888) 558-5801
Fax: (414) 849-2109

## 3.1 GENERAL

**⚠ WARNING**

To prevent injury, lower implements to the ground, disengage all drives, engage parking brake, stop engine and remove key from ignition switch before making any adjustments or performing maintenance.

Make sure the tractor is parked on a solid and level surface. Never work on a tractor that is supported only by the jack. Always use jack stands.

If only the front or rear of the tractor is raised, place chocks in front of and behind the wheels that are not raised.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper adjustment cannot be made, contact an authorized Textron Turf Care And Specialty Products Dealer.
2. Replace, do not adjust, worn or damaged components.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.

**⚠ CAUTION**

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

## 3.2 BALL JOINTS

When adjusting ball joints, be sure cut-out in ball joint is parallel to the mounting bracket, then secure in place

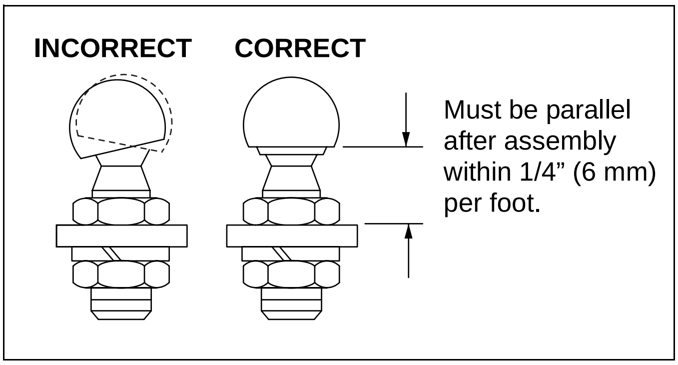



**Figure 3A**

## 3.3 ENGINE ALTERNATOR BELT

1. Inspect and adjust new alternator belt after the first 10 hours of operation. Check and adjust every 100 hours thereafter.
2. Adjust the alternator pulley so the belt deflects 9/32 to 11/32 in. (7 - 9 mm) with 22 lb. (10 kg) push at midpoint between pulleys. Refer to your engine manual.
3. To adjust, loosen alternator mounting bolts **(A)** and adjust alternator until the proper belt tension is achieved.

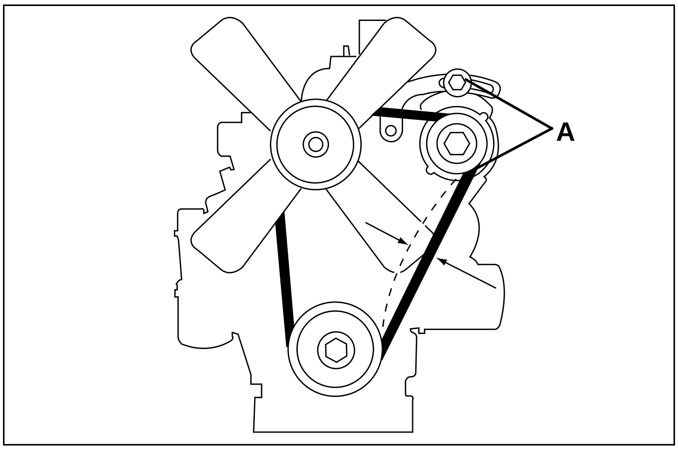



**Figure 3B**

# 3 ADJUSTMENTS

## 3.4 PARKING BRAKE

1. Check linkages, cables and pivot points, to ensure they are operating smoothly. Check brake pads for wear.
2. To set brake force: Place brake lever in the disengaged position. Sit in the operator's seat and turn knob **(B)** clockwise to increase force. Apply and release brake every quarter turn until a force of 36-42 lb. (16 - 19 kg), at the base of the adjustment knob is required to set the parking brake.

   If a scale is not available for measuring, place tractor in 2WD mode and adjust brake until motor cannot overcome the parking brake
3. If the knob on the parking brake has been turned to its maximum extent, new brake pads are required.
4. Brake pads must be replaced when worn to the point that they touch each other above the brake disc.

**CAUTION**

Never disengage the parking brake when the engine is not running.

5. Park the tractor on an incline (Approximately 16.7° slope) near the bottom of the hill, with the front of the tractor facing downhill. Engage the parking brake and stop the engine.
6. If the brakes do not hold, Start the engine, disengage brake and drive to the bottom of the hill to make the adjustment.

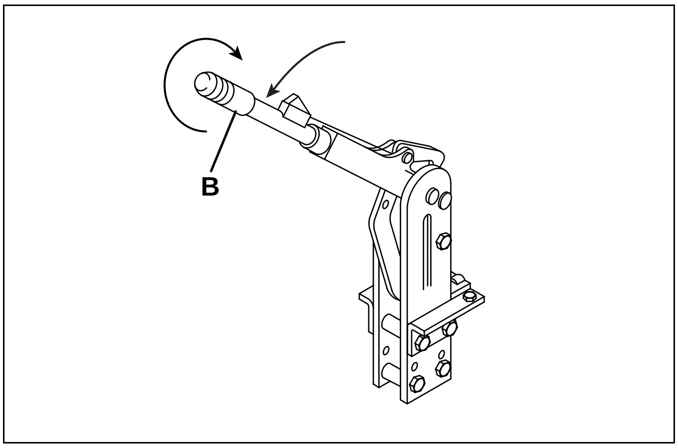



**Figure 3C**

## 3.5 SERVICE BRAKE

Adjust ball joint **(C)** so brake pedal has a minimum of 1/8 in. (3 mm) free travel before plunger touches piston in master cylinder.Turn ball joint in (Clockwise) to decrease or out (Counter-clockwise) to increase pedal travel.

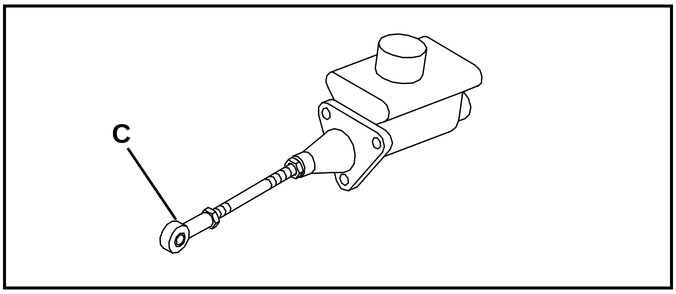



**Figure 3D**

## 3.6 CRUISE CONTROL SWITCH

1. If the cruise control does not disengage when brake pedal is depressed, loosen hardware **(D)** and slide switch so roller **(E)** is centered on bolt **(F)**.
2. Loosen hardware and adjust bolt **(F)** so head makes contact with roller **(E)** and activates switch.

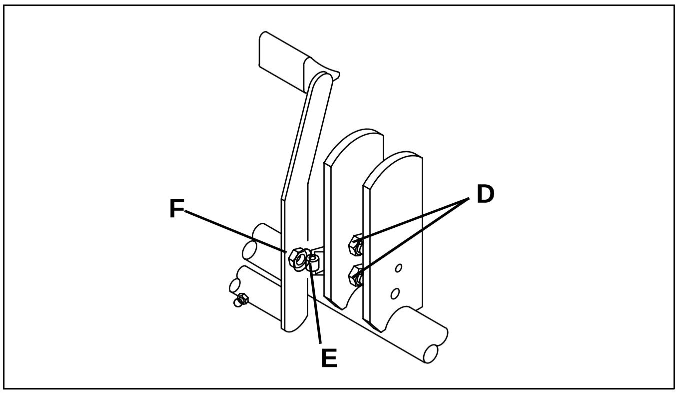



**Figure 3E**

## 3.7 FUEL SOLENOID

1. Adjust rod **(H)** so fuel solenoid locks into hold position when ignition key is turned to the START and returned to the RUN position. Maintain a 1/32 - 1/16 in. (0.8 - 1.6 mm) gap between lever and boss when ignition key is in the OFF position.

**Note:** *Fuel solenoid will not activate without parking brake engaged, and PTO Switch disengaged. Turn key to Start position only long enough to activate solenoid. Do not start engine without operator in seat.*

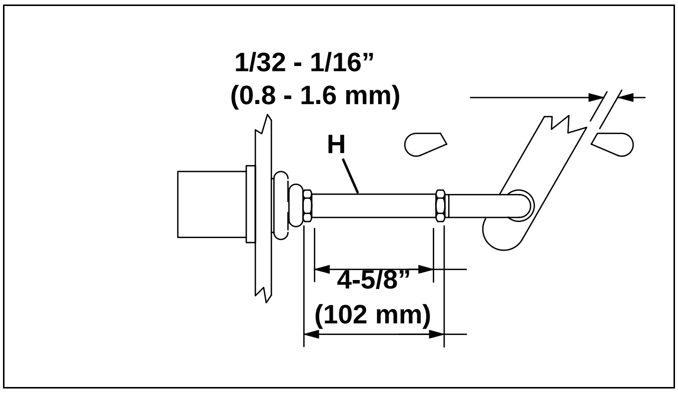



**Figure 3F**

## 3.8 GROUND PRESSURE

1. Adjusting ground pressure affects lowering time of the lift arms and also affects ground pressure at each tire.
2. Loosen thin knob **(J)** and adjust large knob **(K)** to increase or decrease cutting unit weight. Knob adjusts all three mowers simultaneously.
   a. Increasing cutting unit weight allows mowers to follow contours of ground better and reduces tractor ground pressure.
   b. Decreasing cutting unit weight increases tractor weight, which increases traction on slopes.
   c. Once desired ground pressure has been obtained, tighten thin knob **(J)**.

**Note:** *If cutting unit weight is set too low, wing cutting units will not lower to the ground from transport position.*

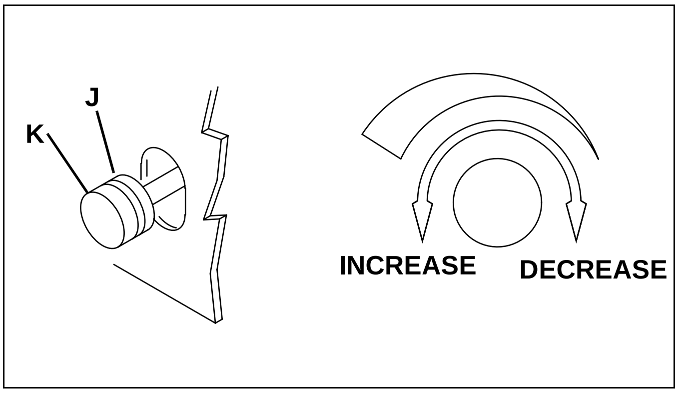



**Figure 3G**

## 3.9 HYDRO NEUTRAL

If the tractor "Creeps" in either direction, the neutral position must be adjusted. The tractor may tend to "Creep" if the hydraulic oil is cold. Operate tractor for 15 minutes before determining if adjustment is needed.

> **⚠ WARNING**
>
> Carbon monoxide in the exhaust fumes can be fatal when inhaled. Any adjustments or repairs performed with the engine is running must be made with ample ventilation.
>
> Never work on a tractor that is supported only by the jack. Always use jack stands.
>
> If only the front or rear of the tractor is raised, place chocks in front of and behind the wheels that are not raised.

1. Place a small amount of lubricating oil on all linkage pivot points.
2. Hoist tractor so all four tires are off the ground and place jack stands under the frame to prevent accidental lowering of the tractor during adjustment.
3. Start engine and set throttle to full speed.
4. Disengage parking brake and place 2WD/4WD Switch in 2WD position.
5. Check rotation of drive tires and adjust traction return control **(L)** with the engine running.
   a. To adjust for forward creep, loosen nut **(M)** and turn nut **(N)** in until tires stop rotating. Hold nut **(N)** in place and tighten nut **(M)**.
   b. To adjust for reverse creep, loosen nut **(M)** and turn nut **(N)** out until tires stop rotating. Hold nut **(N)** in place and tighten nut **(M)**.
6. If tractor continues to creep, check position of traction return control **(L)**.
   a. The return control **(L)** must be parallel to traction arm **(O)**.
   b. Loosen hardware **(P)** and adjust bracket **(Q)** until control is parallel to arm.

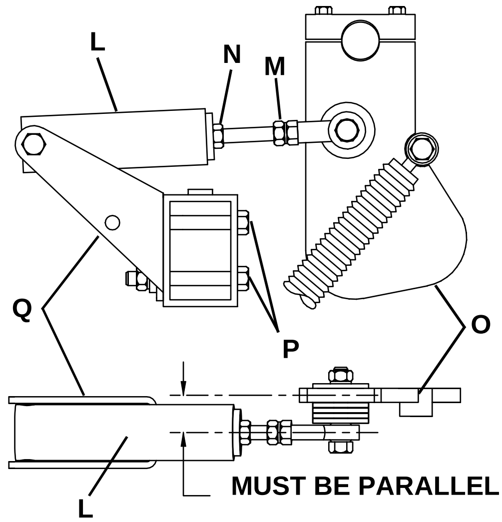



**Figure 3H**

## 3.10 TRACTION PEDAL STOP

Move traction pedal **(T)** to its maximum forward position. Adjust stop bolt **(R)** until bolt touches the traction pedal. Adjust bolt one revolution counter-clockwise (out against pedal) and tighten both nuts **(S)**.

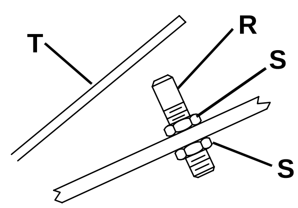



**Figure 3I**

## 3.11 STEERING TOE IN

"Toe in" should be adjusted from X ± 1/16 in (1.5 mm).

1. Turn wheels to straight ahead position.
2. Loosen tie rod jam nuts **(U)**.
3. Adjust tie rod and retighten jam nuts
4. After adjusting "Toe in" it may be necessary to re-adjust steering stop bolts.

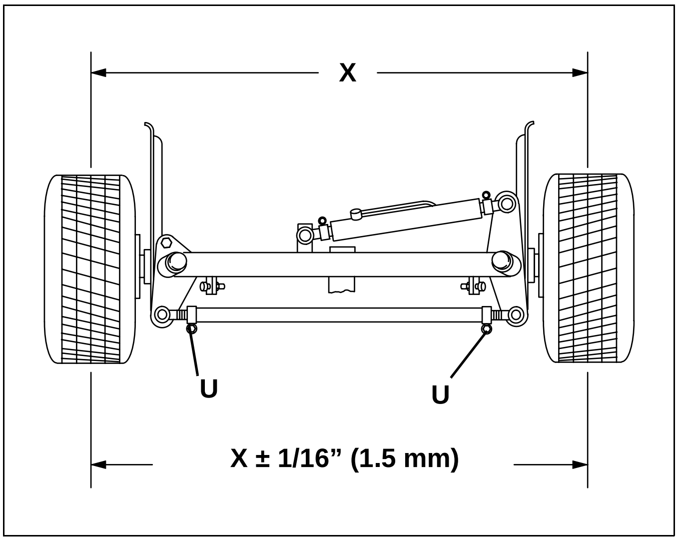



**Figure 3J**

## 3.12 TURNING RADIUS

1. Adjust steering cylinder **(V)** for equal angle steering in both directions. Check that ball joints are threaded equally into both ends.
2. Loosen screw and nut **(W)** on locking clamp. Turn cylinder rod to obtain desired length then retighten hardware.
3. Fully extend and retract steering cylinder and readjust steering stop bolts.

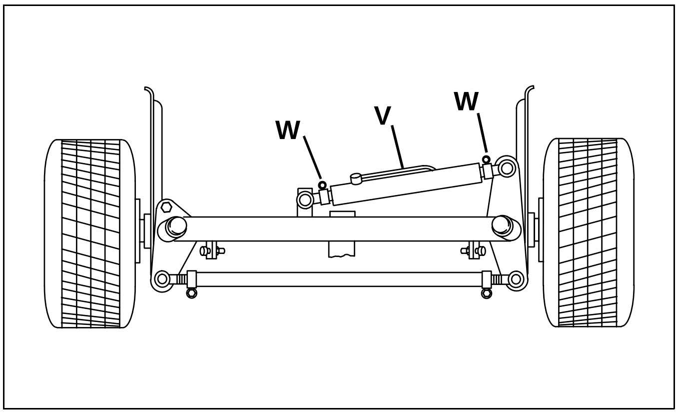



**Figure 3K**

## 3.13 STEERING STOP BOLTS

Do not adjust the stop bolts until the "Toe in" and steering cylinder have been adjusted.

1. Loosen both nuts **(Y)** and turn bolts completely in against mounting block.
2. Fully retract steering cylinder. Adjust left side stop bolt until it just touches steering arm. Tighten left side nut **(Y)**.
3. Fully extend steering cylinder. Adjust right side stop bolt until it just touches steering arm. Tighten right side nut **(Y)**.

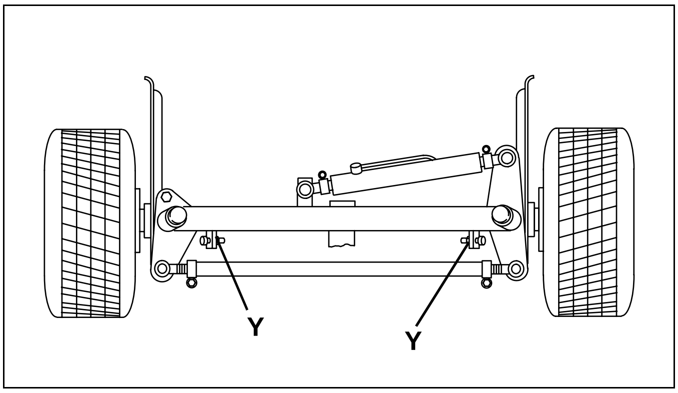



**Figure 3L**

## 3.14 REVERSE SENSING SWITCH

1. Adjust actuating rod **(Z)** so tractor shifts into 2WD at approximately 0.5 m.p.h. in reverse.
2. Loosen nut and turn rod end counterclockwise to decrease speed or clockwise to increase speed.
3. Tighten nut and test machine.
4. If adjustment cannot be made, contract your authorized Textron Turf Care And Specialty Products dealer.

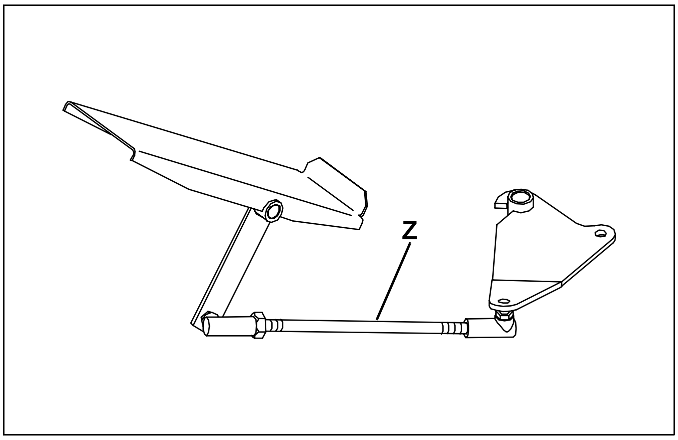



**Figure 3M**

## 3.15 LEVELING FRONT MOWER

1. Before leveling the front deck, the tractor tires and caster wheels must be properly inflated. The cutting height is directly related to the radius of the tire.
2. Set the cutting height of the front mower to 5-1/2 in. (140 mm).
3. Rotate all blades so that one end of the blade **(A)** is pointing forward.
4. Fully lower front deck. Measure from the ground to point **(A)** and from the ground to point **(B)**. Point **(B)** must be 1/8 in. (3 mm) higher than point **(A)**.
5. Add or remove shims **(C)** as required between bumper pad **(D)** and lift arm **(E)**.
6. Once the front mower has been properly leveled, the cutting height may be readjusted without changing the shims. It may be necessary to re-level the deck if there is a change to the tires.

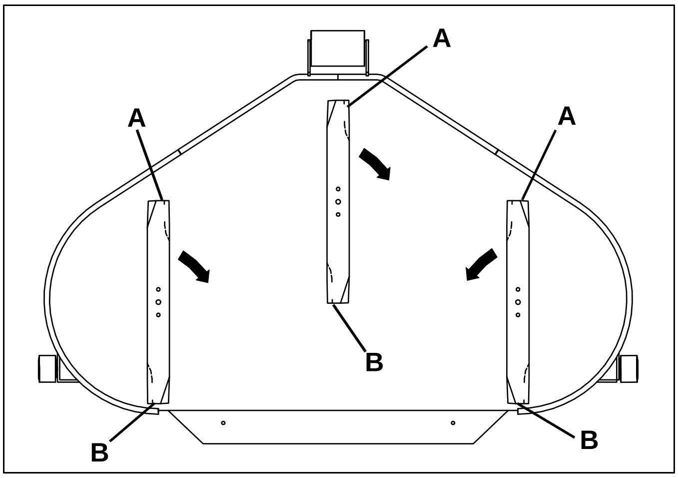



**Figure 3N**

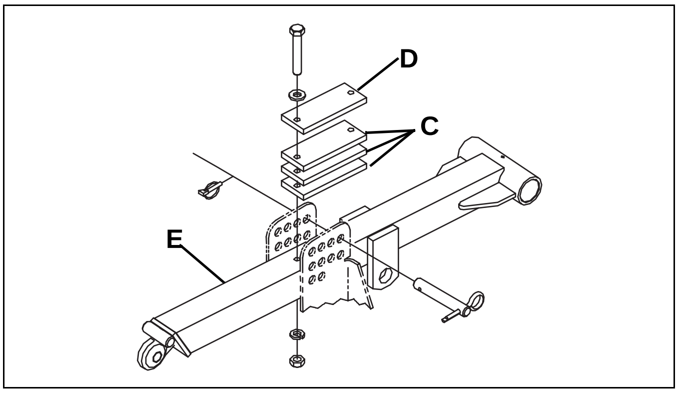



**Figure 3O**

## 3.16 CUTTING HEIGHT

Level the front mower before setting the cutting height for the first time. Do not remove the cutting units from the tractor to change cutting height.

Cutting height for decks can be adjusted from 1 to 5-1/2 in. (25-140 mm) in 1/2 in. (13 mm) increments. Actual cutting height may vary somewhat from the heights given depending on turf conditions, tire variances and other factors.

**Note**: *When cutting undulating areas, lower cutting heights may cause scalping. Adjust height accordingly to prevent turf damage.*

1. Park the tractor on a flat, level surface. Raise the decks until the caster wheels are raised off the ground enough so caster wheels can be removed from deck. Place blocks under decks so they are supported on all sides.

| ⚠ WARNING |
|---|
| To prevent serious injury, lower deck until it is resting completely on the supports. This will prevent it from accidentally lowering while making adjustments. Disengage all drives, engage parking brake, stop engine and remove ignition key. |

2. **Figure 3P** shows the height adjustment decal for the casters.

   Column 1 - Height of cut
   Column 2 - Arrangement of spacers
   Column 3 - Arm Position
   Column 4 - Wing Mower Mounting Location
   Column 5 - Front Mower Mounting Location

3. Adjust spacers in quantity listed. Store extra spacers on top of spindle. Always leave one thin spacer above and below caster arm.

4. For cutting heights 3 in. (76 mm) and below, caster arms should be assembled to upper set of holes **(A)**. For cutting heights above 3 in. (76 mm), caster arms should be assembled to lower set of holes **(B)**.

**Note:** *After setting cutting height, fully lower cutting units onto a flat, hard surface, stop engine, and measure the distance from the blade tips to the ground. If the distance is different from the desired cutting height, make adjustments as necessary. Cut in a small test area and make any final adjustments for desired turf appearance.*

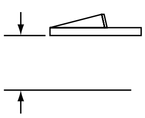
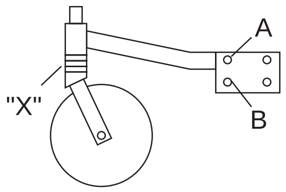
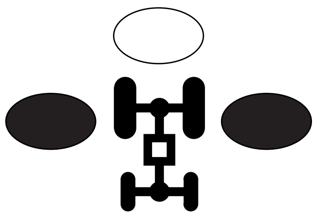
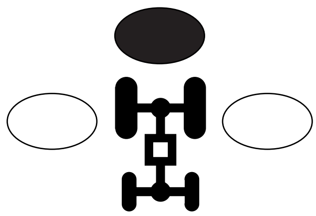
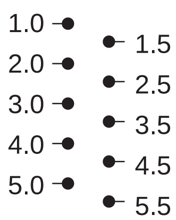
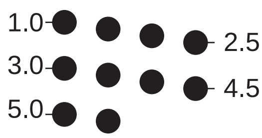
|  |   "X" | |  |  |
|---|---|---|---|---|
| 1.0 | 0 | A |   |   |
| 1.5 | 1 | A | | |
| 2.0 | 2 | A | | |
| 2.5 | 3 | A | | |
| 3.0 | 4 | A | | |
| 3.5 | 0 | B | | |
| 4.0 | 1 | B | | |
| 4.5 | 2 | B | | |
| 5.0 | 3 | B | | |
| 5.5 | 4 | B | | |

**Figure 3P**

## 3.17 SERVICING FRONT DECK

The front deck can be raised and tilted up to improve access to the cutting unit and blades for service and cleaning. Be sure to disengage all drives, engage parking brake, stop engine and remove ignition key before working around deck.

**To tilt front deck up to its service position:**

1. Fully raise front and right wing deck. Stop engine.
2. Remove height of cut pins from front deck and carefully lift deck to a perpendicular position.
3. Use a chain or heavy rope to tie the front right caster arm to the right wing deck.
4. Start engine and lower front deck to the ground. Stop engine and remove ignition key.

**To return deck to service:**

1. Start engine and fully raise front deck.Stop engine. Remove rope or chain from right wing deck and slowly lower front deck.

**⚠ CAUTION**

Removing rope or chain will release the full weight of the deck. Make sure anyone assisting in this procedure is made aware of this before removing rope or chain.

2. Install height of cut pins in correct set of holes. Start engine and lower front deck.

## 3.18 SPECIFIC TORQUE

Tie Rod Ball Joints (2): 20 ft lb. (27 Nm).

Steering Cylinder Ball Joints (2): 45 ft lb (61 Nm).

Blade Adapter Bolts (14): 35 - 40 ft lb (47 - 54 Nm).

Center Blade Bolts (7): 75 ft lb (102 Nm).

Rear Wheel Bolts (10): 40 - 50 ft lb (54 - 68 Nm).

Front Lug Nuts (10): 100 - 120 ft lb (135 - 162 Nm)

## 3.19 TORQUE SPECIFICATION

**CAUTION**

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Textron Turf Care And Specialty Products is not responsible for any loss, claim, or damage arising from the use of these charts. **Extreme caution should always be used when using any torque value.**

Textron Turf Care And Specialty Products uses Grade 5 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

**AMERICAN NATIONAL STANDARD FASTENERS**

| SIZE | UNITS | GRADE 5 | | GRADE 8 | | SIZE | UNITS | GRADE 5 | | GRADE 8 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Lubricated | Dry | Lubricated | Dry | | | Lubri-cated | Dry | Lubri-cated | Dry |
| #6-32 | in-lb (Nm) | – | 20 (2.3) | – | – | 7/16-14 | ft-lb (Nm) | 37 (50.1) | 50 (67.8) | 53 (71.8) | 70 (94.9) |
| #8-32 | in-lb (Nm) | – | 24 (2.7) | – | 30 (3.4) | 7/16-20 | ft-lb (Nm) | 42 (56.9) | 55 (74.6) | 59 (80.0) | 78 (105) |
| #10-24 | in-lb (Nm) | – | 35 (4.0) | – | 45 (5.1) | 1/2-13 | ft-lb (Nm) | 57 (77.2) | 75 (101) | 80 (108) | 107 (145) |
| #10-32 | in-lb (Nm) | – | 40 (4.5) | – | 50 (5.7) | 1/2-20 | ft-lb (Nm) | 64 (86.7) | 85 (115) | 90 (122) | 120 (162) |
| #12-24 | in-lb (Nm) | – | 50 (5.7) | – | 65 (7.3) | 9/16-12 | ft-lb (Nm) | 82 (111) | 109 (148) | 115 (156) | 154 (209) |
| 1/4-20 | in-lb (Nm) | 75 (8.4) | 100 (11.3) | 107 (12.1) | 143 (16.1) | 9/16-18 | ft-lb (Nm) | 92 (124) | 122 (165) | 129 (174) | 172 (233) |
| 1/4-28 | in-lb (Nm) | 85 (9.6) | 115 (13.0) | 120 (13.5) | 163 (18.4) | 5/8-11 | ft-lb (Nm) | 113 (153) | 151 (204) | 159 (215) | 211 (286) |
| 5/16-18 | in-lb (Nm) | 157 (17.7) | 210 (23.7) | 220 (24.8) | 305 (34.4) | 5/8-18 | ft-lb (Nm) | 128 (173) | 170 (230) | 180 (244) | 240 (325) |
| 5/16-24 | in-lb (Nm) | 173 (19.5) | 230 (26.0) | 245 (27.6) | 325 (36.7) | 3/4-10 | ft-lb (Nm) | 200 (271) | 266 (360) | 282 (382) | 376 (509) |
| 3/8-16 | ft-lb (Nm) | 23 (31.1) | 31 (42.0) | 32 (43.3) | 44 (59.6) | 3/4-16 | ft-lb (Nm) | 223 (302) | 298 404 | 315 (427) | 420 (569) |
| 3/8-24 | ft-lb (Nm) | 26 (35.2) | 35 (47.4) | 37 (50.1) | 50 (67.8) | 7/8-14 | ft-lb (Nm) | 355 (481) | 473 (641) | 500 (678) | 668 (905) |

**METRIC FASTENERS**

| SIZE | UNITS | 4.6 | | 8.8 | | 10.9 | | 12.9 | | Non Critical Fasteners into Aluminum |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Lubricated | Dry | Lubricated | Dry | Lubricated | Dry | Lubricated | Dry | |
| **M4** | Nm (in-lb) | – | – | – | – | – | – | 3.83 (34) | 5.11 (45) | 2.0 (18) |
| **M5** | Nm (in-lb) | 1.80 (16) | 2.40 (21) | 4.63 (41) | 6.18 (54) | 6.63 (59) | 8.84 (78) | 7.75 (68) | 10.3 (910 | 4.0 (35) |
| **M6** | Nm (in-lb) | 3.05 (27) | 4.07 (36) | 7.87 (69) | 10.5 (93) | 11.3 (102) | 15.0 (133) | 13.2 (117) | 17.6 (156) | 6.8 (60) |
| **M8** | Nm (in-lb) | 7.41 (65) | 9.98 (88) | 19.1 (69) | 25.5 (226) | 27.3 (241) | 36.5 (323) | 32.0 (283) | 42.6 (377) | 17.0 (150) |
| **M10** | Nm (ft-lb) | 14.7 (11) | 19.6 (14) | 37.8 (29) | 50.5 (37) | 54.1 (40) | 72.2 (53) | 63.3 (46) | 84.4 (62) | 33.9 (25) |
| **M12** | Nm (ft-lb) | 25.6 (19) | 34.1 (25) | 66.0 (48) | 88.0 (65) | 94.5 (70) | 125 (92) | 110 (81) | 147 (108) | 61.0 (45) |
| **M14** | Nm (ft-lb) | 40.8 (30) | 54.3 (40) | 105 (77) | 140 (103) | 150 (110) | 200 (147) | 175 (129) | 234 (172) | 94.9 (70) |

# 4 MAINTENANCE

## 4.1 GENERAL

**⚠ WARNING**

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine and remove key from ignition switch to prevent injuries

Make sure the tractor is parked on a solid and level surface. Never work on a tractor that is supported only by the jack. Always use jack stands.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Textron Turf Care And Specialty Products Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule and keep detailed records.
   a. Keep the equipment clean.
   b. Keep all moving parts properly adjusted and lubricated.
   c. Replace worn or damaged parts before operating the machine.
   d. Keep all fluids at their proper levels.
   e. Keep shields in place and all hardware securely fastened.
   f. Keep tires properly inflated.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.
4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (batteries, fuel, lubricants, anti-freeze, etc.) according to local, state or federal regulations.

## 4.2 INSPECTING BLADES

1. Every 50 hours of operation or whenever mower is removed from tractor, carefully examine the blades to make sure they are in good operating condition. Blades showing any bends **(G)**, grooves **(H)** or cracks (**J**) must be replaced.

**⚠ CAUTION**

Use care when checking blades to avoid pinching hands and fingers between blade ends.

**⚠ WARNING**

Never attempt to straighten, weld or repair a damaged blade. Always replace a damaged blade.

2. Any of the above conditions can cause a piece of the blade to break away and be hurled from the mower; causing very serious injury to bystanders or property damage.
3. A bent blade could have a microscopic crack (G) that can grow and allow a piece of the blade to break. Bent blades will also create vibration and other stress on the machinery.
4. Dust or sand particles can wear a dangerous groove in the blade (H) between the air vanes and the flat portion of the blade that will rapidly grow and produce a crack (J), permitting a piece of the vane to break off.

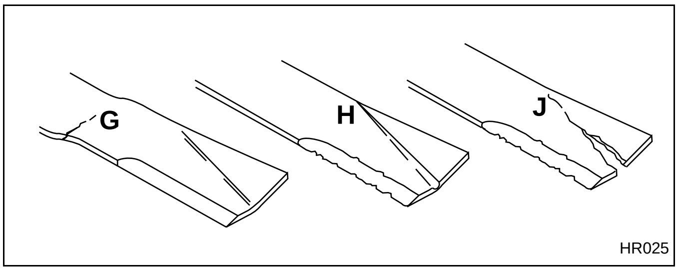



**Figure 4A**

## 4.3 SHARPENING BLADES

1. Place a wooden block between the blade and mower housing to stop the blade from moving. To remove blade, turn screw holding blade counterclockwise.

**WARNING**

The mower blades can develop sharp edges. Use caution whenever servicing and handling.

2. When dressing or sharpening the blade, do not follow the original pattern of grind as shown in **(A)**. Grind new cutting edges at an angle as shown in **(B)**.

   If the maximum total loss of the blade reaches 1/2 in., (13 mm), do not sharpen further, replace blade.

**WARNING**

Resharpening the blade beyond the allowable 1/2 in., (13 mm) may allow blade tip break off and be thrown from the mower. Such an incident can cause very serious injury to bystanders and/or property damage.

3. Make sure an equal amount of material is removed from both sides of blade to prevent having an unbalanced blade. An unbalanced blade will cause excessive vibration and may damage the mower.
4. Use a blade balancer (JAC 5016) to check the blade after sharpening.
5. Identify the three clockwise rotation **(D)** and four counter-clockwise rotation **(E)** blades. The blades for clockwise rotation are installed on the left front deck motor, the outside left wing deck motor and the inside right wing deck motor. (Rotation is determined by normal motor rotation viewed from top of deck)
6. Install blades so cutting edges **(C)** face the direction of rotation as shown in Figure 4C. Air vane of blade must face in toward deck housing.

   Torque center mounting screw holding blade to 75 ft. lb. (102 Nm).

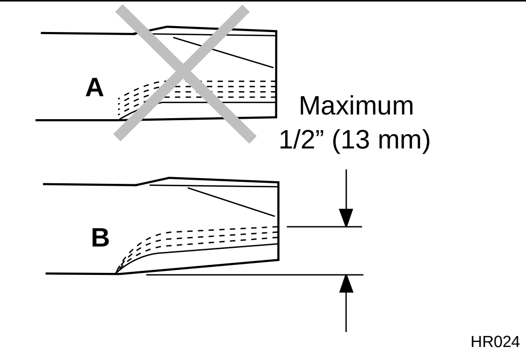
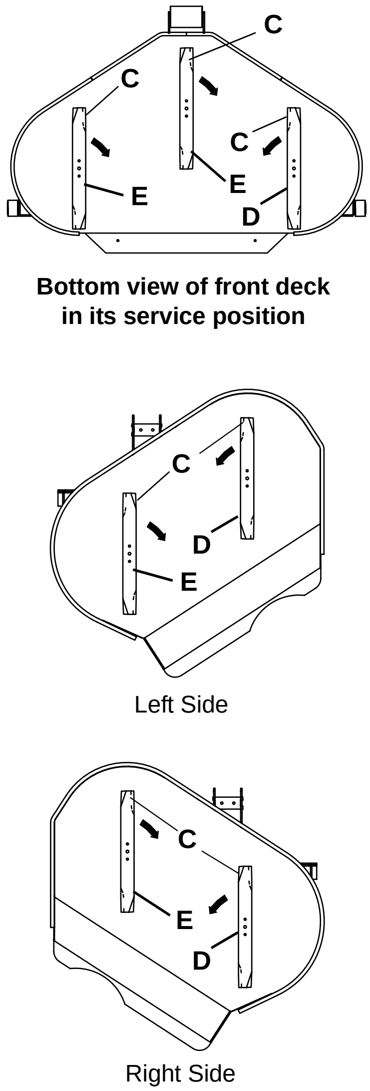



**Figure 4B**




**Bottom view of front deck in its service position**

Left Side

Right Side

**Bottom view of side decks raised to their transport position**.

**Figure 4C**

# 4 MAINTENANCE

## 4.4 ENGINE

**IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this tractor. Read the engine manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order replacement engine manuals contact the engine manufacturer.**

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

**Note:** *The tractor is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.*

During the break-in period, Textron Turf Care And Specialty Products recommends the following:

1. During the first 50 hours of operation, a new engine should be allowed to reach an operating temperature of at least 140°F (60°C) prior to operation at full load.
2. Check the engine oil level twice daily during the first 50 hours of operation. Higher than normal oil consumption is not uncommon during the initial break-in period.
3. Change engine oil and oil filter element after first 25 hours of operation.
4. Check and adjust fan and alternator belts.
5. Refer to Section 6.3 and Engine Manual for specific maintenance intervals.

If the injection pump, injectors or the fuel system require service, contact an authorized Textron Turf Care And Specialty Products Dealer.

**Important:** *The normal engine operating temperature is less than 220° F (104° C). If the engine temperature rises by more than 10° F (6° C) above normal, there is and indication that the cooling system may not be functioning properly.*

*The warning horn will sound when the temperature reaches 230° F (110° C). To prevent damage to the engine, never allow the engine to operate above 230° F. Stop the machine, disengage all drives and operate the engine at low idle for 5 minutes.*

## 4.5 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove oil filler cap and add oil as required.

Perform initial oil change after first 25 hours of operation and every 100 hours thereafter. See Engine Manual.

Use only engine oils with API classification CD/CE.

| | |
|---|---|
| Above 77°F (25°C) | SAE 30W or SAE10W30/10W40 |
| 32 to 77°F (0 to 25°C) | SAE 20W or SAE 10W30/10W40 |
| Below 32° (0°C) | SAE10W or SAE 10W30/10W40 |

***See the engine manufacturer's Owners's Manual for detailed service information.***

After adding or changing oil, start and run engine at idle with all drives disengaged for 30 seconds. Shut engine off. Wait 30 seconds and check oil level. Add oil to bring up to FULL mark on dipstick.

## 4.6 AIR FILTER

**Do not remove the element for inspection or cleaning.** Unnecessary removal of the filter increases the risk of injecting dust and other impurities into the engine.

Air cleaner servicing is required when air cleaner service light **(F)** comes on during normal operation. Empty dust cup daily.

When service is required, first clean the outside of the filter housing; then remove the old element as gently as possible and discard.

1. Carefully clean the inside of the filter housing without allowing dust into the air intake.
2. Inspect the new element. Do not use a damaged element and never use an incorrect element.
3. Assemble the new element and make sure it seats properly.
4. Reassemble cap making sure it seals completely around the filter housing. Dust evacuator must be facing down.
5. Check all hoses and air ducts. Tighten hose clamps.

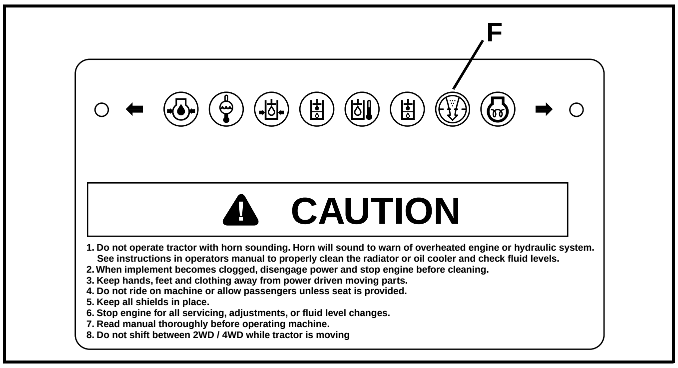



**Figure 4D**

## 4.7 FUEL

**Handle fuel with care - it is highly flammable.** Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.

> **⚠ WARNING**
>
> Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.
>
> Do not smoke when handling fuel. Never fill or drain the fuel tank indoors.
>
> Do not spill fuel and clean spilled fuel immediately.
>
> Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.
>
> Be sure to reinstall and tighten fuel cap securely.

- Fill the fuel tank to within 1 in. (25 mm) of the bottom of the filler neck.
- Store fuel according to local, state or federal ordinances and recommendations from your fuel supplier.
- Never overfill or allow the tank to become empty.
- Check fuel lines and clamps every 50 hours. Replace fuel lines and clamps at the first sign of damage.
- Use clean, fresh, #2 Diesel fuel. Minimum Cetane rating 45. Refer to Engine Manual for additional information.

## 4.8 FUEL SYSTEM

Refer to Section 6.3 for specific maintenance intervals.

Before replacing any filter, thoroughly clean the filter housing and the area around the filter. Dirt must not be allowed to enter into fuel system.

For diesel engines, turn the key switch to the ON position to start the fuel pump, and bleed the fuel system if the fuel filter and lines have been removed, or the fuel tank has become empty. See Engine Manual.

## 4.9 BATTERY

Make absolutely certain the ignition switch is "Off" and the key has been removed before servicing the battery.

**⚠ CAUTION**

Always use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. You must read and obey all battery manufacturer's instructions.

Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep vent caps and terminal covers in place

Check the electrolyte level every 100 hours. Keep the cable ends, battery and battery posts clean.

Verify battery polarity before connecting or disconnecting the battery cables.

1. When installing the battery, always assemble the RED, positive (+) battery cable first and the ground, BLACK, negative (-) cable last.
2. When removing the battery, always remove the ground, BLACK, negative (-) cable first and the RED, positive (+) cable last.
3. Make sure battery is properly installed and secured to the battery tray.

**⚠ WARNING**

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash your hands after handling.**

## 4.10 JUMP STARTING

Before attempting to "jump start" the tractor, check the condition of the discharged battery. Section 4.9

**⚠ WARNING**

Batteries generate explosive hydrogen gas. To reduce the chance of an explosion, avoid creating sparks near battery. Always connect the negative jumper cable to the frame of the tractor with the discharged battery, away from the battery.

**When connecting jumper cables:**

1. Stop the engine on the vehicle with a good battery.
2. Connect RED jumper cable to the positive (+) terminal on the good battery and to the positive (+) terminal on the "discharged" battery.
3. Connect the BLACK jumper cable from the negative (-) terminal on the good battery to the frame of the tractor with the discharged battery.

After cables have been connected, start the engine on the vehicle with the good battery then start the tractor.

## 4.11 CHARGING BATTERY

**⚠ WARNING**

Charge battery in a well ventilated area. Batteries generate explosive gases. To prevent an explosion, keep any device that may create sparks or flames away from the battery.

To prevent injury, stand away from battery when the charger is turned on. A damaged battery could explode.

1. Refer to Section 4.9. Read the Battery and Charger's manual for specific instructions.
2. Whenever possible, remove the battery from the tractor before charging. If battery is not sealed, check that the electrolyte covers the plates in all the cells.
3. Make sure the charger is "Off". Then connect the charger to the battery terminals as specified in the charger's manual.
4. Always turn the charger "Off" before disconnecting charger from the battery terminals.

## 4.12 HYDRAULIC HOSES

**⚠ WARNING**

To prevent serious injury from hot, high pressure oil, never use your hands to check for oil leaks, use paper or cardboard.

Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin. If fluid is injected into the skin it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

1. Always lower implements to ground, disengage all drives, engage parking brake, stop engine and remove key before inspecting or disconnecting hydraulic lines or hoses.
2. Check visible hoses and tubes daily. Look for wet hoses or oil spots. Replace worn or damaged hoses and tubes before operating the machine.
3. The replacement tube or hoses must be routed in the same path as the existing hose, do not move clamps, brackets and ties to a new location.
4. Thoroughly inspect all tubes, hoses and connections every 250 hours.

**IMPORTANT: The hydraulic system can be permanently damaged if the oil becomes contaminated.** Before disconnecting any hydraulic component, clean the area around the fittings and the hose ends to keep impurities out of the system.

a. Before disconnecting any hydraulic component, tag or mark the location of each hose then clean the area around the fittings.

b. As you disconnect the component, be prepared to assemble plugs or caps to the hose ends and open ports. This will keep impurities out of the hydraulic system and also prevent oil spills.

c. Make sure “O” rings are clean and hose fittings are properly seated before tightening.

d. Keep the hose from twisting. Twisted hoses can cause couplers to loosen as the hose flexes during operation resulting in oil leaks.

e. Kinked or twisted hoses can restrict the oil flow causing the system to malfunction and the oil to overheat and also lead to hose failure.

## 4.13 HYDRAULIC OIL

Refer to Section 6.3 for specific maintenance intervals.

Drain and replace the hydraulic oil after a major component failure, or if you notice the presence of water or foam in the oil, or a rancid odor (indicating excessive heat).

Always replace the hydraulic filter when changing oil.

**To change hydraulic oil:**

1. Clean the area around the oil cap to prevent impurities from entering and contaminating the system.
   a. Oil temperature should be at 60° to 90°F (16° - 32°C). Do not check oil level when oil is hot.
   b. The main oil tank level should be 2 inches below filler neck.
2. Drain and replace the hydraulic oil yearly or after a major component failure, or if you notice the presence of water, foam, or a rancid odor.
3. Remove drain plug from bottom of main tank and loosen or remove breather cap. Check and clean the breather cap, replace as necessary.
4. After oil has drained install drain plug and fill with Textron Turf Care And Specialty Products Hydraulic oil.
5. Purge air from system.
6. Operate all tractor functions for about 5 minutes to purge air out of the system and stabilize the oil level. Fill tank to full level

## 4.14 HYDRAULIC OIL FILTERS

The hydraulic system is protected by two 10 micron filters.

> **⚠ WARNING**
>
> Charge filter is under pressure. Remove filter slowly to prevent personal injury.

**To replace hydraulic oil filter:**

1. Remove the old filter.
2. Fill new filter with oil then install new filter. Hand tighten only.
3. Operate engine at idle speed with hydraulic system in neutral for five minutes.
4. Check hydraulic oil level and fill as required.

## 4.15 ELECTRICAL SYSTEM

> **⚠ CAUTION**
>
> Always turn the ignition switch off and remove the negative battery cable (Black) before inspecting or working on the electrical system.

General precautions that can be taken to reduce electrical problems are listed below.

1. Make certain all terminals and connections are clean and properly secured.
2. Check the Interlock system, and circuit breakers regularly.

   If the Interlock does not function properly and the problem cannot be corrected, contact an authorized Textron Turf Care And Specialty Products Dealer.
3. Keep the wire harness and all individual wires away from moving parts to prevent damage.
4. Make sure the seat switch harness is connected to the main wire harness.
5. Check the battery and battery charging circuit.
6. Do not wash or pressure spray around electrical connections and components.

## 4.16 MUFFLER AND EXHAUST

> **⚠ WARNING**
>
> Exhaust fumes contain carbon monoxide that is toxic and can be fatal when inhaled.
>
> **NEVER** operate an engine without proper ventilation.

To protect from carbon monoxide poisoning, inspect the complete exhaust system regularly and always replace a defective muffler.

If you notice a change in the color or sound of the exhaust, stop the engine immediately. Identify the problem and have the system repaired.

Torque all exhaust manifold hardware evenly. Tighten or replace exhaust clamps.

## 4.17 TIRES

1. Keep tires properly inflated to prolong tire life. Check inflation pressure while the tires are cool. Inspect tread wear.

1. Check the pressure with an accurate, low pressure tire gauge.
2. Keep tires inflated to:

   Front - 16-20 psi - (110-138 kPa)

   Rear - 8-10 psi (55-69 kPa)

   Casters - 20-25 psi (138-172 kPa)

> **⚠ CAUTION**
>
> Unless you have the proper training, tools and experience, DO NOT attempt to mount a tire on a rim. Improper mounting can produce an explosion which may result in serious injury.

## 4.18 WHEEL MOUNTING PROCEDURE

**WARNING**

Make sure the tractor is parked on a solid and level surface. Never work on a tractor that is supported only by the jack. Always use jack stands.

If only the front or rear of the tractor is raised, place chocks in front of and behind the wheels that are not raised.

1. Remove dirt, grease and oil from stud thread. Do not lubricate threads.
2. Position wheel on hub and inspect to insure full contact between mounting surface of wheel and hub.
3. Finger tighten all hardware then torque hardware in criss-cross order; always tighten nuts in the top position.
4. Check and retorque daily until torque is maintained. See **Section 3.18**

## 4.19 CARE AND CLEANING

Wash the tractor and implements after each use. Keep the equipment clean.

**Note:** Do *not wash any portion of the equipment while it is hot. Do not use high pressure spray or steam. Use cold water and automotive cleaners.*

1. Use compressed air to clean engine and radiator fins. A special blow gun is available through Textron Turf Care And Specialty Products Dealer.
2. Use only fresh water for cleaning your equipment.

**Note:** *Use of salt water or affluent water has been known to encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.*

3. Do not spray water directly at the instrument panel, ignition switch, controller or any other electrical components, or at bearing housings and seals.
4. Clean all plastic or rubber trim with a mild soap solution or use commercially available vinyl/rubber cleaners.

Repair damaged metal surfaces and use Textron Turf Care And Specialty Products touch-up paint. Wax the equipment for maximum paint protection.

**CAUTION**

Clean grass and debris from cutting units, drives, muffler and engine to prevent fires.

**WARNING**

**NEVER** use your hands to clean cutting units. Use a brush to remove grass clippings from blades. Blades are extremely sharp and can cause serious injuries.

## 4.20 ROLLOVER PROTECTION STRUCTURE (ROPS)

A Rollover Protection System (ROPS)is included with this tractor. Inspect it periodically and follow operating procedures described in Safety and Operation Manual

**CAUTION**

Do not loosen or remove bolts, do not weld, drill, modify, bend or straighten a damaged structure.

1. The seat, the seat belt, mounting hardware and any accessories within the ROPS, should be inspected regularly and all damaged parts replaced immediately.
2. Once the ROPS has been subjected to any form of impact it should be replaced.
3. Check and retorque all hardware. All replacement components used for the ROPS must be as specified in the Textron Turf Care And Specialty Products Parts List.

## 4.21 RADIATOR AND OIL COOLER

**⚠ WARNING**

To prevent serious bodily injury from hot coolant or steam blow-out, never attempt to remove the radiator cap while the engine is running. Stop the engine and wait until it is cool. Even then, use extreme care when removing the cap.

**⚠ CAUTION**

Do not pour cold water into a hot radiator. Do not operate engine without a proper coolant mixture. Install cap and tighten securely.

1. Check coolant level daily. Radiator should be full and recovery bottle should be up to the **cold** mark.
2. Drain and refill annually. Remove the radiator cap, open the engine block drain and the radiator drain. Empty and clean the recovery bottle.
3. Mix clean water with ethylene glycol based anti-freeze for the coldest ambient temperature. Read and follow the instructions on the anti-freeze container and engine manual.
4. Keep the hood and screen clean. Remove leaves or grass clippings from screen daily.
5. Loosen wing nuts on side of oil cooler and tilt oil cooler back to cleaning position.
6. Open trap door under the radiator and oil cooler, then place a piece of cardboard, to act as a deflector, between the radiator and oil cooler.

**⚠ WARNING**

To prevent burns, do not touch muffler or muffler shield when opening trap door. Surface temperatures may exceed 150° F (66° C).

7. Use compressed air, up to 30 psi (206 kPa), to clean the radiator and oil cooler fins. A special blow gun (JAC 5098) is available through an Authorized Textron Turf Care And Specialty Products Dealer.
8. Direct air through the engine side of radiator towards rear of tractor and through rear of oil cooler towards the front of tractor.
9. Remove cardboard and return oil cooler to its upright position. Tighten wing nuts. Clean the entire compartment underneath the radiator and close trap door.
10. Check and tighten the fan belt. Replace clamps and hoses every two years.
11. If you continue to experience engine or hydraulic system overheating, have to add coolant more than once a month, or add more than one quart at a time, have a authorized Textron Turf Care And Specialty Products Dealer check the cooling system.

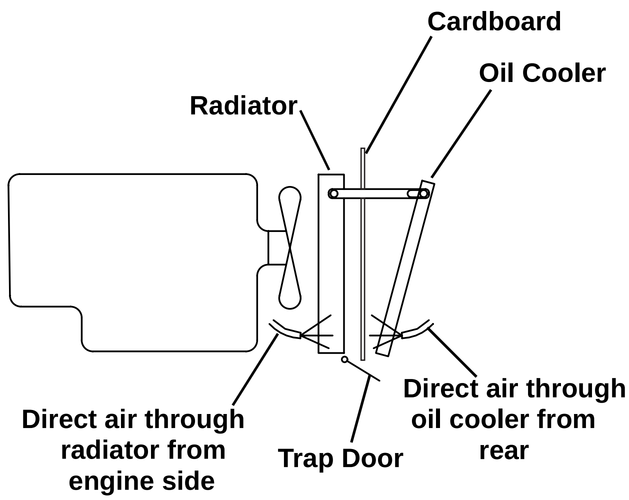



**Figure 4E**

## 4.22 STORAGE

**General**

1. Wash the tractor thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the tractor, tighten all hardware, replace worn or damaged components.
3. Drain and refill radiator.
4. Clean the tires thoroughly and store the tractor so the load is off the tires. If tractor is not on jack stands, check tires at regular intervals and reinflate as necessary.
5. Keep the machine and all its accessories clean, dry and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

**Battery**

1. Remove, clean and store battery in upright position in a cool, dry place.
2. Check and recharge battery every 60 to 90 days while in storage.
3. Store batteries in a cool, dry place. To reduce the self discharge rate, room temperature should not be above 80°F (27°C) or fall below 20°F (-7°C) to prevent electrolyte from freezing.

**Engine (General)**

1. While the engine is warm, remove the drain plug, drain the oil from the crankcase and change oil filter. Install drain plug and refill with fresh oil. Let engine cool before storing.
2. Clean exterior of engine. Paint exposed metal, or apply a light coat of rust preventative oil.
3. Add a fuel conditioner or biocide to prevent gelling or bacterial growth in fuel. See your local fuel supplier.
4. If storing indoors, drain fuel from tank.
5. Close fuel shut off valve.

**Cutting Units**

1. Wash the cutting units thoroughly, then repair and paint any damaged or exposed metal.
2. Lubricate all fittings and friction points.

**⚠ CAUTION**

To prevent personal injury and damage to the cutting edges, handle the blades with extreme care

**After Storage**

1. Check and reinstall battery
2. Check or service fuel filter and air cleaner.
3. Check the radiator coolant level.
4. Check oil level in the engine crankcase and hydraulic system.
5. Fill the fuel tank with fresh fuel. Open fuel shut off valve and bleed the fuel system.
6. Make certain that the tires are properly inflated.
7. Remove all oil from the reels and bedknife. Adjust bedknife and cutting height.
8. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.

**⚠ WARNING**

Never operate the engine without proper ventilation; exhaust fumes can be fatal when inhaled.

# 5 TROUBLESHOOTING

## 5.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information regarding the hydraulic and electrical systems contact your area Textron Turf Care And Specialty Products Dealer.

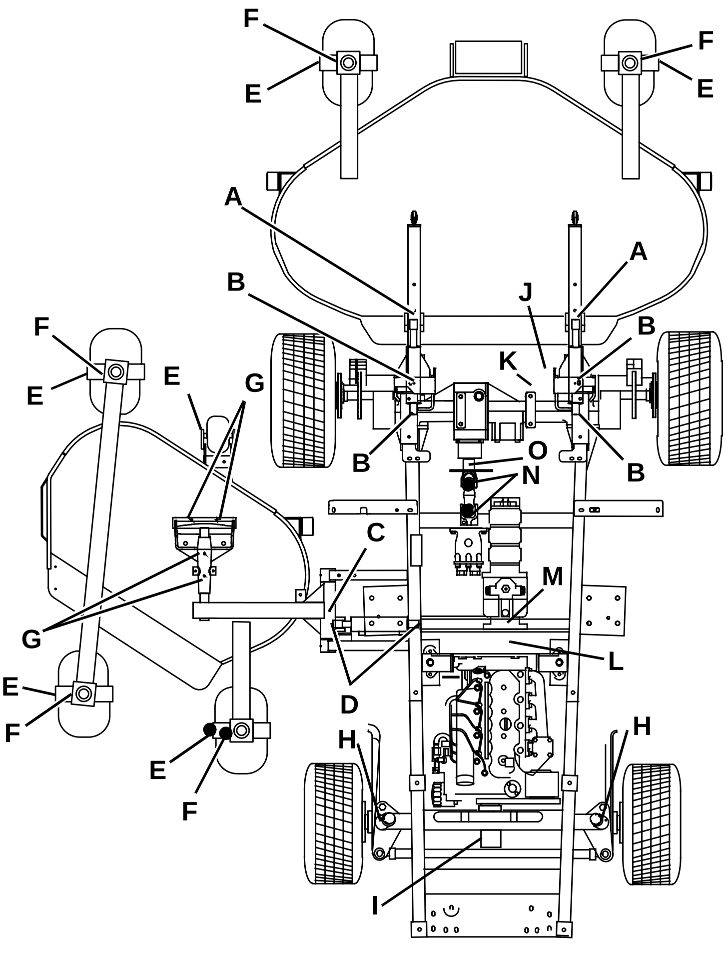
| Symptoms | Possible Causes | Action |
|---|---|---|
| Engine will not start. | 1. Parking brake disengaged, traction pedal not in neutral or PTO switch on. | 1. Check Interlock system and start-up procedure. |
| | 2. Battery low on charge or defective. | 2. Inspect condition of battery and battery connections. |
| | 3. Fuel tank empty or dirty. Fuel shut off valve closed | 3. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. Open fuel shut off valve |
| | 4. Circuit breaker blown. | 4. Reset circuit breaker. |
| Engine hard to start or runs poorly. | 1. Fuel level low, fuel or fuel filter dirty. | 1. Fill with fresh fuel. Change fuel filter. Bleed fuel lines. |
| | 2. Air cleaner dirty. | 2. Inspect and replace air filter. |
| | 3. Injectors, fuel pump | 3. Consult engine manual. |
| | 4. Engine problem. | 4. Consult engine manual |
| Engine stops. | 1. Fuel tank empty. | 1. Fill with fresh fuel and bleed fuel lines. |
| | 2. Interlocks not set before leaving operator's seat. | 2. Engage parking brake, set reel switch to OFF and traction pedal in neutral. |
| Engine overheating | 1. Coolant level low. | 1. Inspect and add coolant. |
| | 2. Air intake restricted. | 2. Clean cooling air intake. |
| | 3. Water pump belt broken or loose. | 3. Tighten or replace belt. |
| | 4. Engine overload. | 4. Reduce forward speed |
| Battery not holding charge. | 1. Loose or corroded battery terminals. | 1. Inspect and clean terminals |
| | 2. Low electrolyte. | 2. Refill to correct level. |
| | 3. Alternator belt loose or broken. | 3. Tighten or replace belt |
| | 4. Charging system defective. | 4. See engine manual |
| Mowers do not cut or cut unevenly. | 1. Cutting units not fully lowered. | Lower cutting units to ground. |
| | 2. Engine speed too low. | Check engine speed. Run engine at full throttle. |
| | 3. Low hydraulic oil | Check reservoir level and fill if needed. |
| Tractor does not react to traction pedal | 1. Parking brake engaged | Disengage parking brake. |
| | 2. Tow Valve Open | Close Tow Valve |
| | 3. Low hydraulic oil | Check reservoir level and fill if needed |
| Implement does not raise or lower | 1. Low hydraulic oil | Check reservoir level and fill as needed |
| Gauges/Indicator not operating | 1. Circuit Breaker blown | Reset circuit breaker, check bulb |
| | 2. Loose wiring | Check electrical connections. |

## 6.1 GENERAL

> **⚠ WARNING**
>
> Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine and remove key from ignition switch to prevent injuries

1. Always clean the grease fitting before and after lubricating.
2. Lubricate with grease that meets or exceeds NLGI Grade 2 LB specifications. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air guns.
3. Periodically apply a small amount of lithium based grease to the seat runners.
4. For smooth operation of all levers, pivot points and other friction points that are not shown on the lubrication chart apply several drops of SAE 30 oil every 40 hours or as required.
5. Grease fittings every 25 hours.

## 6.2 LUBRICATION CHART




| | Description | Fittings |
|---|---|---|
| **A** | Front mower arm pivot | (2) |
| **B** | Front lift cylinders | (4) |
| **C** | Wing mower arm pivot | (4) |
| **D** | Wing mower lift cylinders | (4) |
| **E** | Caster Wheels | (10) |
| **F** | Caster Arms | (8) |
| **G** | Deck Pivot Housing | (4) |
| **H** | Spindle Housing Steering Axle | (2) |
| **I** | Steering Axle Pivot | (1) |
| **J** | Tilt Steering Column | (1) |
| **K** | Brake Pedal Pivot | (1) |
| **L** | Pump Drive Shaft | (2) |
| **M** | Pump Drive Shaft | (1) |
| **N** | Axle Drive Shaft | (2) |
| **O** | Shaft Spline | (1) |

# 6 MAINTENANCE & LUBRICATION CHARTS

## 6.3 MAINTENANCE CHARTS

**Recommended Service and Lubrication Intervals**

| | Every 8-10 Hours | Every 25 Hours | Every 100 Hours | Every 250 Hours | Every 400 Hours | Every 500 Hours | Every 1000 Hours | Yearly | See Section | Lubricant Type |
|---|---|---|---|---|---|---|---|---|---|---|
| Air Filter (Cab) | I | | | R | | | | | | |
| Air Filter (Engine) | I | | | | | | | R**** | 4.6 | |
| Battery Charge | | I | | | | | | | 4.9 | |
| Belts | I-A* | I-A | | | | R | | | 4., 3.2 | |
| Brake (Hydraulic) | | I-A | | | | | | | | V |
| Brake (Parking) | | I-A | A | | | | | | | |
| Cooling System | I-C-A | | | | | | | R | 4.21 | IV |
| Electrical System | | I* | I | | | | | | 4.15 | |
| Engine Oil | I | R* | R | | | | | | 4.5 | II |
| Engine Oil Filter | | R* | R | | | | | | | |
| Front Axle | I-A | | | | | | | R | | VI |
| Fuel System | | I | | | | | | | 4.8 | |
| Fuel Filter | | | | | | | | R | 4.8 | |
| Grease Fittings - All | L | L | L | | | L | | | 6.2 | I |
| Hydraulic Hoses and Tubes | I*** | | | I | | | | | 4.12 | |
| Hydraulic Oil | I-A | | | R** | | | | | 4.13 | III |
| Hydraulic Oil Filter (2) | | R* | | R**** | | | | | 4.14 | |
| Muffler and Exhaust | | I | | | | | | | 4.16 | |
| Radiator Screens | I-C/AR | | | | | | | | 4.21 | |
| Tires | I-A | A | | | | | | | 4.17 | |

***A - Add or Adjust   C - Clean   I - Inspect   L- Lubricate   R - Replace   AR - As Required***

* Indicates initial service for new machines.

** Or every two years whichever comes first.

*** Inspect visible hoses and tubes for leaks or oil marks.

**** Or when service indicator light comes on.

I - Manual grease gun with NLGI Grade 2 (Service Class LB).

II - Engine Oil - See Section 4.5

III - Use Textron Turf Care And Specialty Products hydraulic fluid: Capacity: 5 gallons (19 Liters). Order Part No. 2500548 carton, containing two 2-1/2 gal. (9.5 liter) bottles or Part No. 2500546 containing 5 gal. (19 liters), pail.

IV - Capacity: 3qt. (2.8 l) 50/50 water ethylene glycol mix.

V - Heavy Duty 116-DOT-3

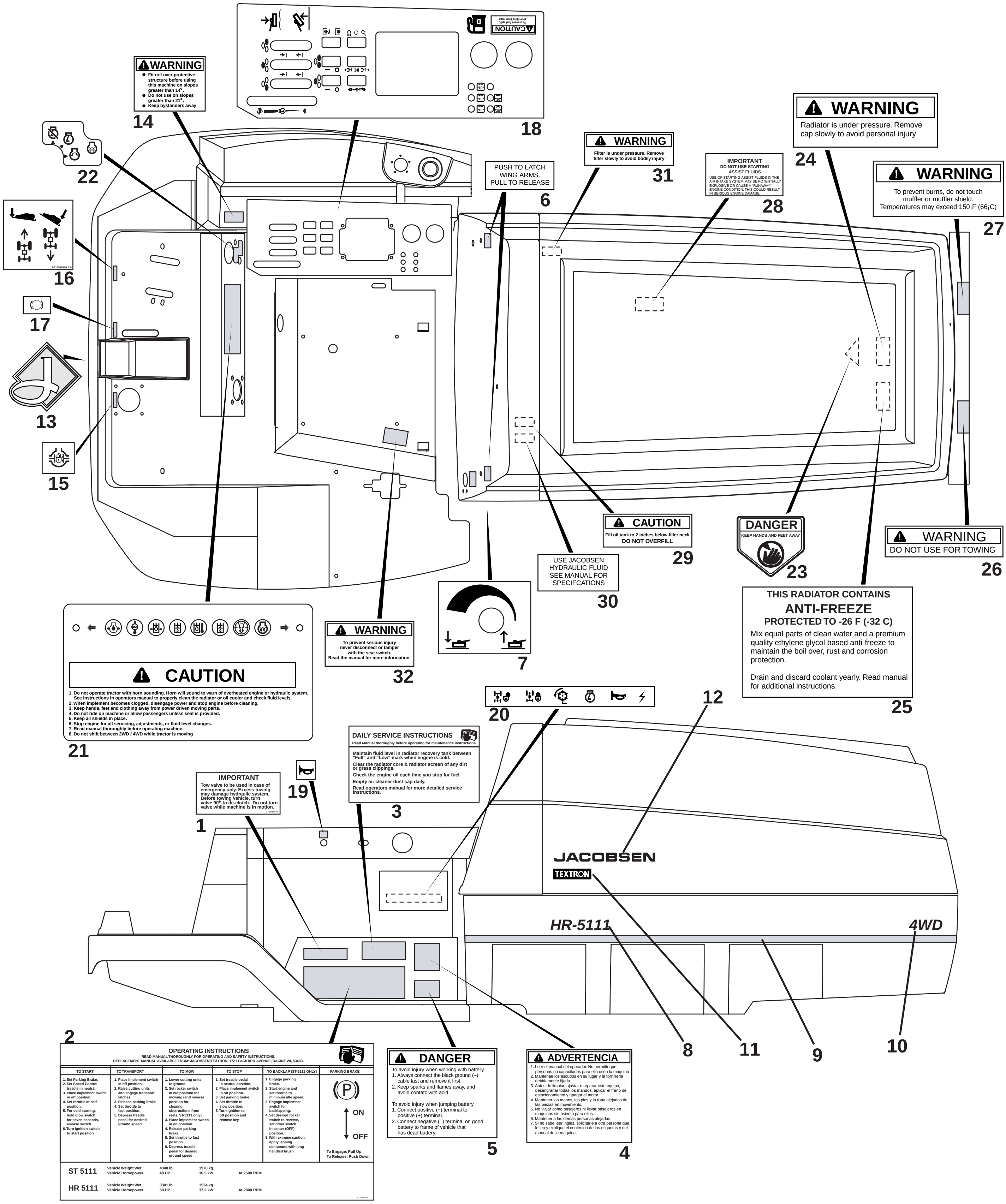
VI - Capacity 2 Quarts 90 Weight gear lube

# 8 PARTS CATALOG

## 8.1 TABLE OF CONTENTS

## 1.1 Decals

Serial No. 69158 All

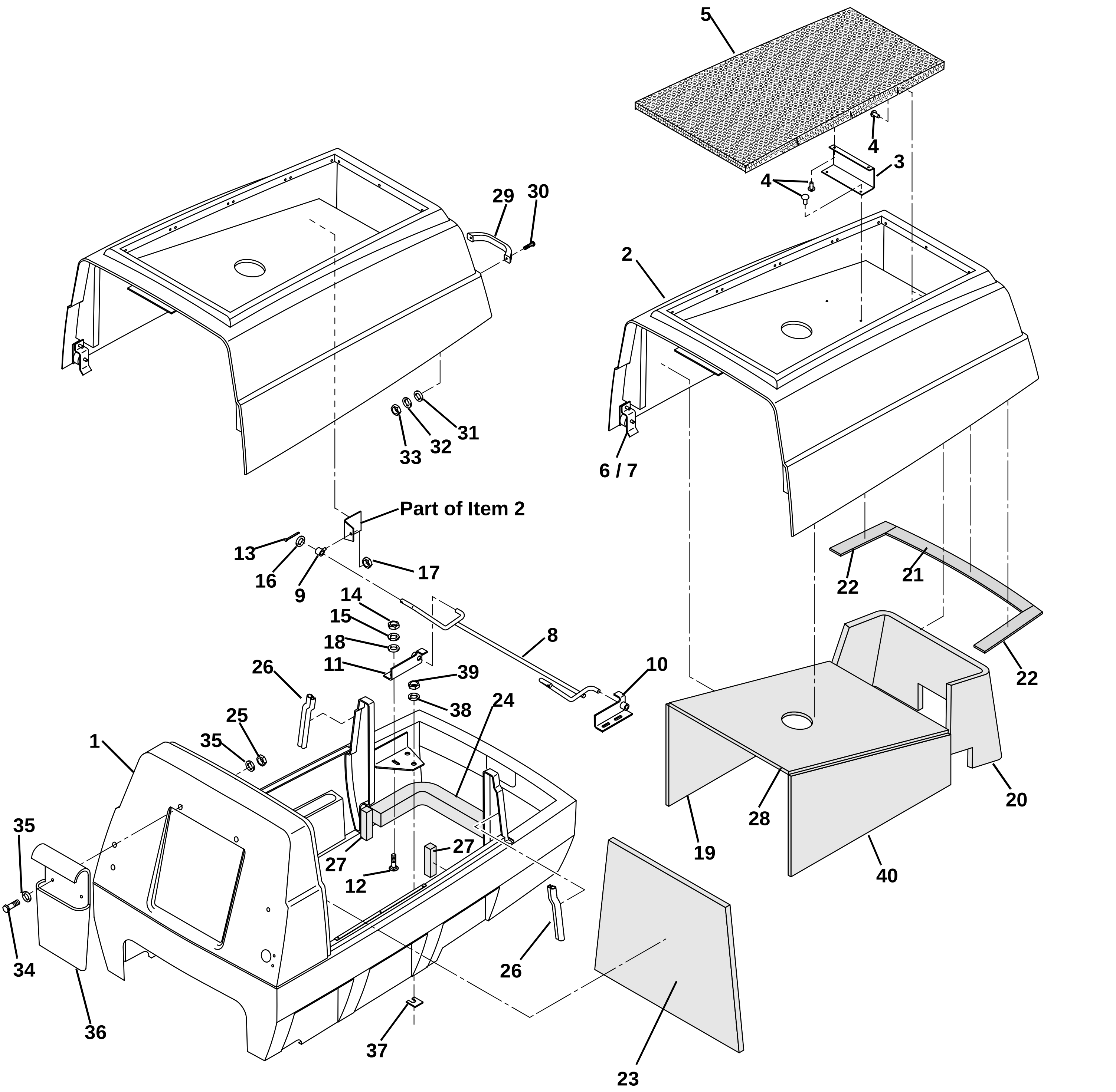


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 364907 | 1 | Decal, Tow Valve | |
| 2 | 3002541 | 1 | Decal, Instruction | |
| 3 | 363994 | 1 | Decal, Service | |
| 4 | 340623 | 1 | Decal, Spanish | |
| 5 | 3001435 | 1 | Decal, Battery Danger | |
| 6 | 366608 | 2 | Decal, Wing Transport Lock Cable | |
| 7 | 3002517 | 1 | Decal, Ground Pressure | |
| 8 | 3008326 | 2 | Decal, HR 5111 | |
| 9 | 3008042 | 2 | Decal, Blue Stripe | |
| 10 | 3008327 | 2 | Decal, 4WD | |
| 11 | 3007514 | 2 | Decal, Textron | |
| 12 | 3007505 | 2 | Decal, Jacobsen | |
| 13 | 3007129 | 1 | Emblem, Diamond J | |
| 14 | 3002529 | 1 | Decal, Warning | |
| 15 | 3002817 | 1 | Decal, Differential Lock | |
| 16 | 3002556 | 1 | Decal, Accelerator | |
| 17 | 3002248 | 1 | Decal, Brake | |
| 18 | 3002520 | 1 | Decal, Instrument Panel | |
| 19 | 366866 | 1 | Decal, Symbol | Use Horn Portion of Decal Only |
| 20 | 3002565 | 1 | Decal, Relay Identification | Located on inside of relay cover |
| 21 | 3002518 | 1 | Decal, Front Panel | |
| 22 | 3002515 | 1 | Decal, Ignition | |
| 23 | 339460 | 1 | Decal, Danger | Located on Fan Shroud |
| 24 | 365956 | 1 | Decal, Radiator Warning | Located on Radiator Seal |
| 25 | 363995 | 1 | Decal, Antifreeze | Located on Radiator Seal |
| 26 | 361175 | 1 | Decal, Towing | |
| 27 | 339237 | 1 | Decal, Heat Warning | |
| 28 | 3000435 | 1 | Decal, Start Assist | Located on Air Cleaner |
| 29 | 365919 | 1 | Decal, Caution | Located on Hydraulic Tank |
| 30 | 352487 | 1 | Decal, Hydraulic Fluid | Located on Hydraulic Tank |
| 31 | 366160 | 1 | Decal, Warning | Located on Charge Filter Bracket |
| 32 | 365339 | 1 | Decal, Seat Switch Warning | |

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## 2.1 Hood

Serial No. 69158 All

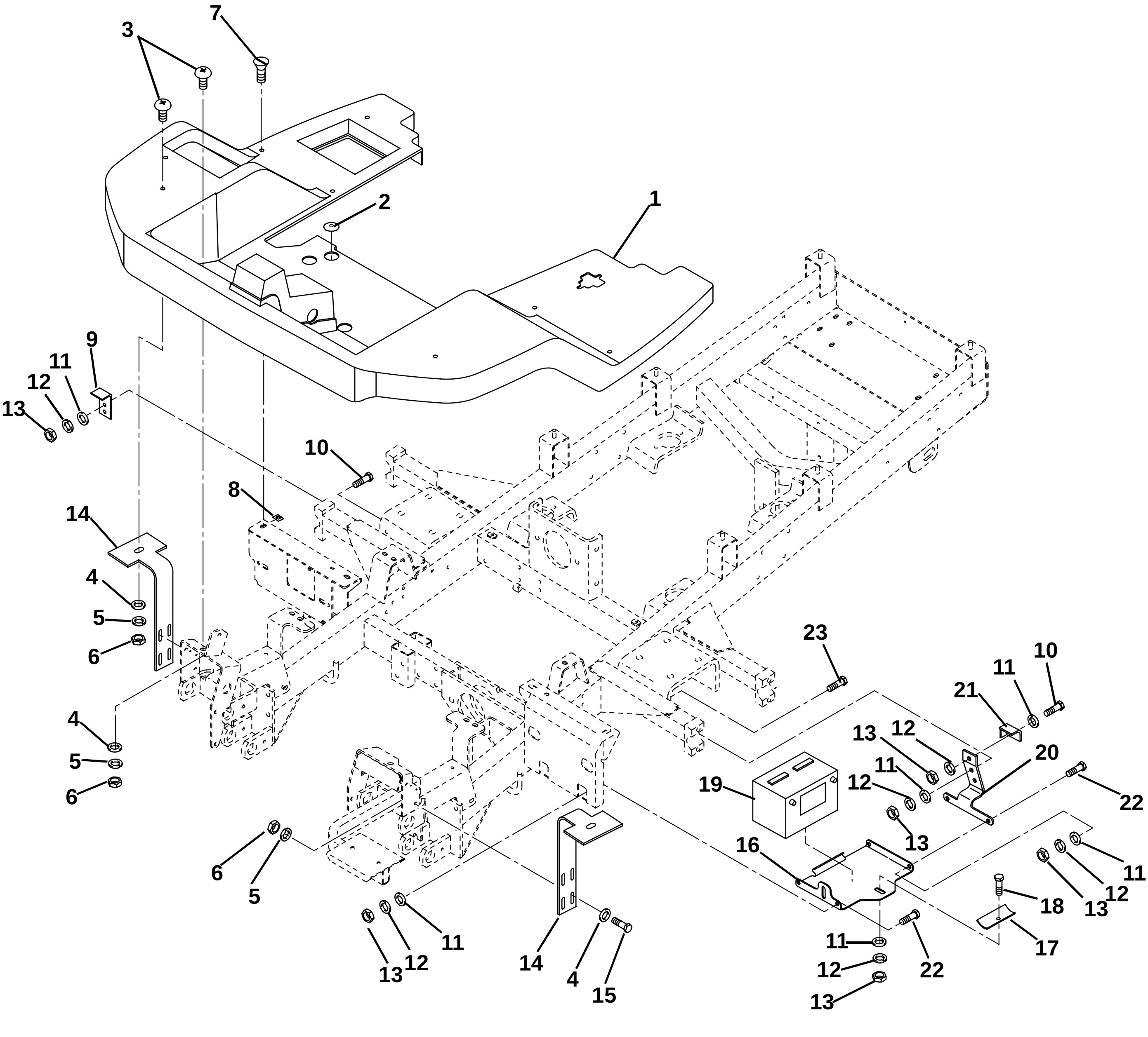


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| | 117117 | 1 | Hood Assembly | |
| 1 | 555873 | 1 | • Hood, Lower | |
| 2 | 555874 | 1 | • Hood, Upper | |
| 3 | 366563 | 1 | • • Bracket, Screen | |
| 4 | 463720 | 26 | • • Rivet, 1/8 | |
| 5 | 395362 | 1 | • • Screen | |
| 6 | 2720955 | 1 | • • Right Side Roller Bracket | |
| 7 | 2720956 | 1 | • • Left Side Roller Bracket | |
| | 5001412 | 1 | • • Fiber Glass Bond Repair Kit | Required to install Items 6 and 7 |
| 8 | 555877 | 1 | • Rod, Pivot | |
| 9 | 555878 | 2 | • Pivot | |
| 10 | 555879 | 1 | • Bracket, LH Pivot | |
| 11 | 555880 | 1 | • Bracket, RH Pivot | |
| 12 | 441624 | 4 | • Carriage Bolt, 3/8-16 x 1” | |
| 13 | 460028 | 2 | • Cotter Pin, 1/8 x 1” | |
| 14 | 443110 | 4 | • Nut, 3/8-16 Hex | |
| 15 | 446142 | 4 | • Lockwasher, 3/8 Heavy | |
| 16 | 325621 | 2 | • Flat Washer | |
| 17 | 444718 | 4 | • Locknut, 5/16-18 Center | |
| 18 | 453011 | 4 | • Flat Washer, 3/8 | |
| 19 | 340442 | 1 | Foam, Right Side Hood | |
| 20 | 391044 | 1 | Foam, Rear Hood | |
| 21 | 340444 | 1 | Pad, Neoprene | |
| 22 | 366535 | 2 | Pad, Neoprene | |
| 23 | 340443 | 1 | Foam, Front Hood | |
| 24 | 3001708 | 1 | Weather Strip, Hood | |
| 25 | 444718 | 2 | Locknut, 5/16-18 Center | |
| 26 | 366398 | 2 | Trim, Seal | |
| 27 | 3001709 | 2 | Weather Strip, Body | |
| 28 | 340440 | 1 | Foam, Plenum | |
| 29 | 340795 | 1 | Handle, Hood | |
| 30 | 402230 | 2 | Screw, 1/4-20 x 1” Round Head | |
| 31 | 453023 | 2 | Flat Washer, 1/4 | |
| 32 | 446130 | 2 | Lockwasher, 1/4 | |
| 33 | 443102 | 2 | Nut, 1/4-20 Hex | |
| 34 | 400188 | 2 | Screw, 5/16-18 x 1” Hex Head | |
| 35 | 452006 | 4 | Flat Washer, 5/16 | |
| 36 | 3003928 | 1 | Pouch, Literature | |
| 37 | 366375 | AR | Shim, Mounting | |
| 38 | 452008 | 6 | Flat Washer, 3/8 | |
| 39 | 444762 | 6 | Locknut, 3/8-16 Center | |
| 40 | 340441 | 1 | Foam, Left Side Hood | |

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## 3.1 Floorboard Platform

Serial No. 69158 All

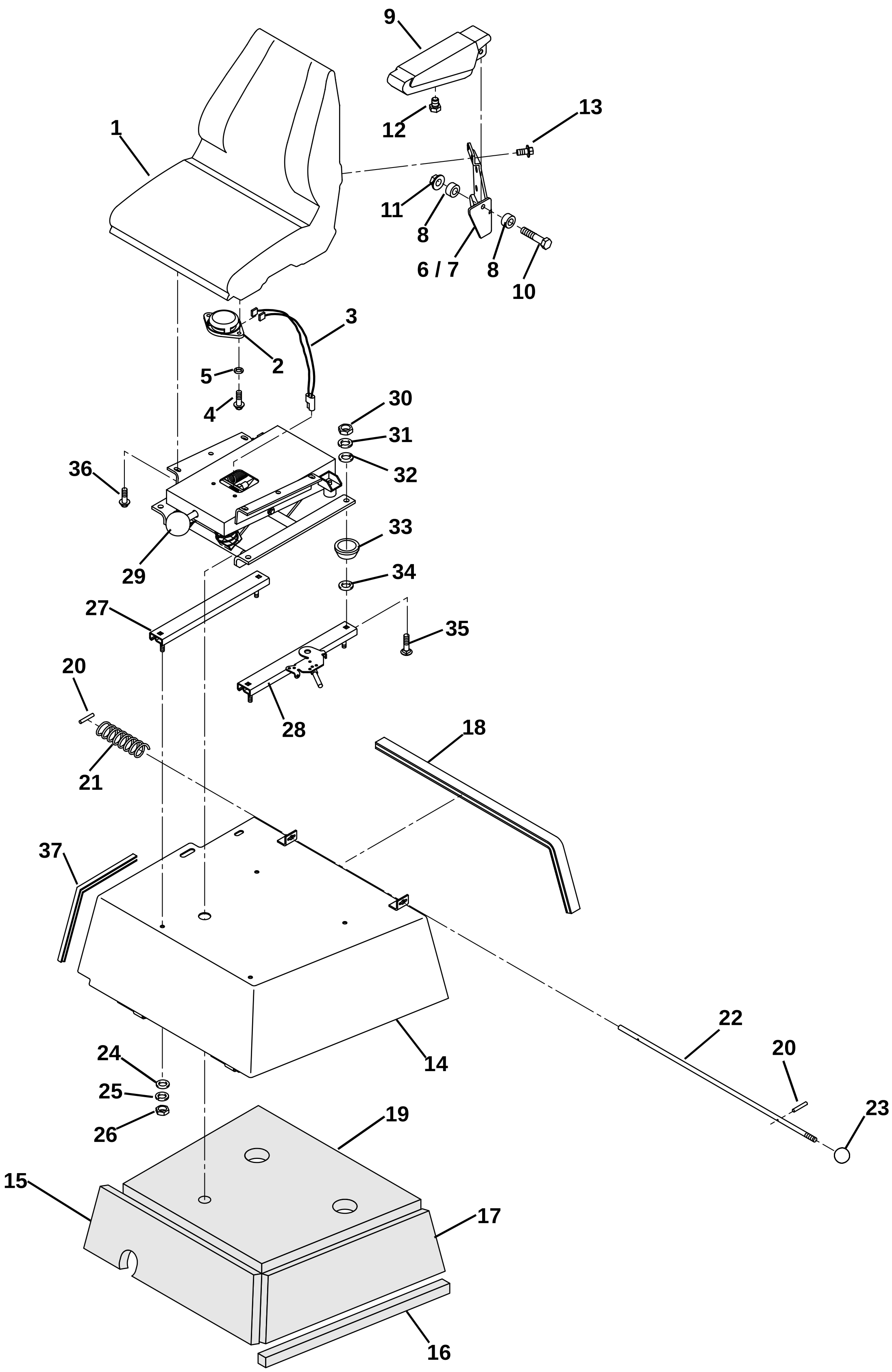


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 117132 | 1 | Floorboard | |
| 2 | 366403 | 5 | Plug, Floorboard | |
| 3 | 404072 | 4 | Screw, 5/16-18 x 1” Turss Head | |
| 4 | 452006 | 8 | Flat Washer, 5/16 | |
| 5 | 446136 | 8 | Lockwasher, 5/16 Heavy | |
| 6 | 443106 | 8 | Nut, 5/16-18 Hex | |
| 7 | 402636 | 4 | Screw, 5/16-18 x 1” Flat Head | |
| 8 | 445278 | 4 | Nut, U-Type Speed | |
| 9 | 2242037 | 1 | Bracket, RH Rear Platform Support | |
| 10 | 400264 | 3 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 11 | 453011 | 10 | Flat Washer, 3/8 | |
| 12 | 446142 | 10 | Lockwasher, 3/8 Heavy | |
| 13 | 443110 | 10 | Nut, 3/8-16 Hex | |
| 14 | 339011 | 2 | Bracket, Front Platform Support | |
| 15 | 400188 | 4 | Screw, 5/16-18 x 1” Hex Head | |
| 16 | 3003423 | 1 | Tray, Battery | |
| 17 | 3003425 | 1 | Clamp, Battery Retaining | |
| 18 | 400258 | 1 | Screw, 3/8-16 x 3/4” Hex Head | |
| 19 | 503611 | 1 | Battery, 12 V Group # 75NF | **REFERENCE B1, See 67.1** |
| 20 | 2242036 | 1 | Bracket, Battery Tray Support | |
| 21 | 1002613 | 1 | Bracket, LH Rear Platform Support | |
| 22 | 400262 | 4 | Screw, 3/8-16 x 1” Hex Head | |
| 23 | 400266 | 2 | Screw, 3/8-16 x 1-1/2” Hex Head | |

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## 4.1 Seat Pan

Serial No. 69158 All

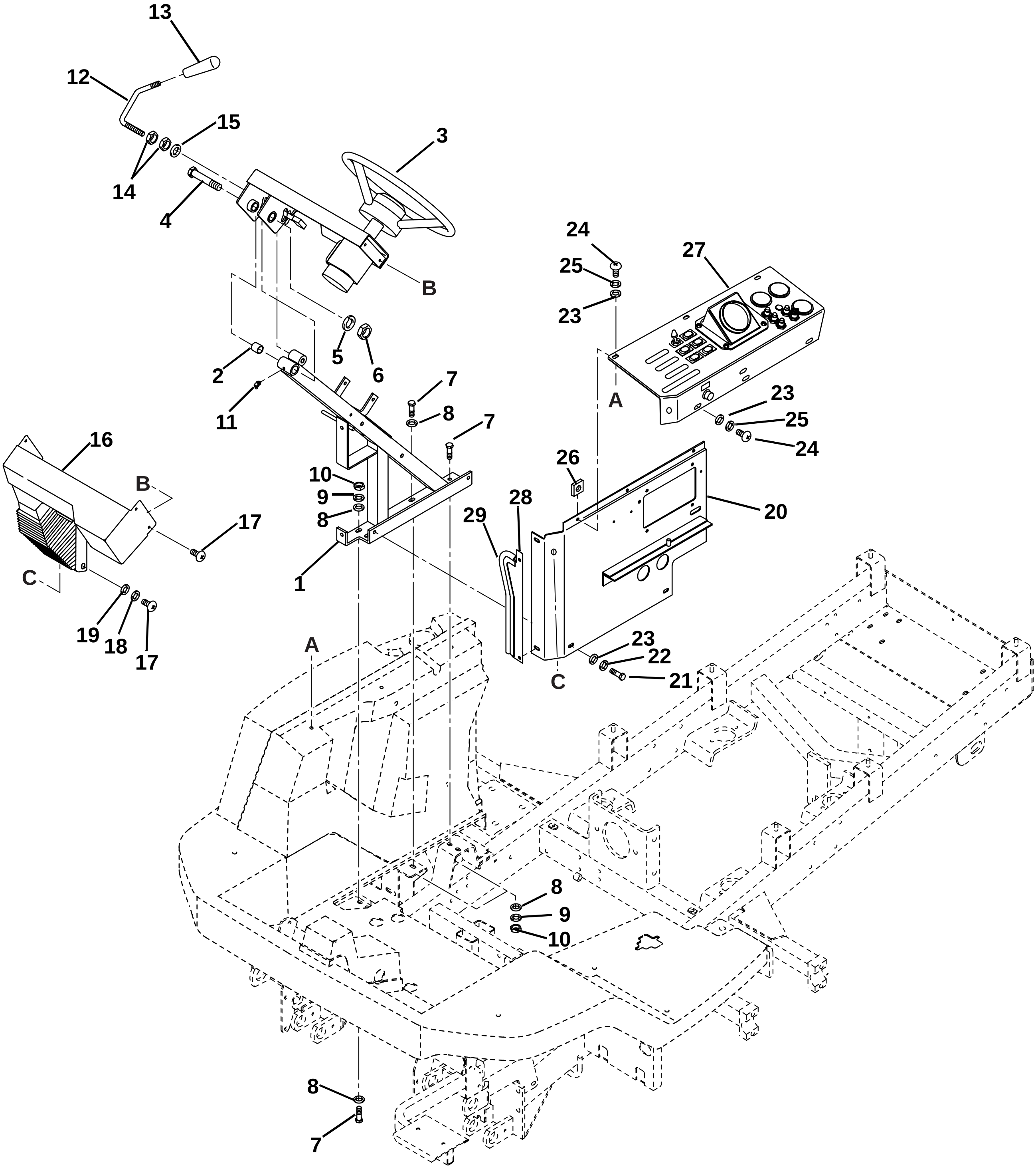


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 66172 | 1 | Seat | |
| 2 | 554390 | 1 | • Switch, Seat | **REFERENCE SW3, See 67.1** |
| 3 | 163583 | 1 | • Seat Wire Harness | |
| 4 | 434011 | 2 | • Screw, 1/4-20 x 5/8” Socket Head | |
| 5 | 446130 | 2 | • Lockwasher, 1/4 Heavy | |
| | 66156 | 1 | Arm Rest Kit | |
| 6 | 554737 | 1 | • Bracket, Left Side Arm Rest | |
| 7 | 554740 | 1 | • Bracket, Right Side Arm Rest | |
| 8 | 554738 | 4 | • Spacer | |
| 9 | 554739 | 2 | • Arm Rest, Black | |
| 10 | 400268 | 2 | • Screw, 3/8-16 x 1-3/4” Hex Head | |
| 11 | 445783 | 2 | • Nut, 3/8-16 Whizlock Flange | |
| 12 | 400254 | 2 | • Screw, 3/8-16 x 1/2” Hex Head | |
| 13 | 3001328 | 6 | • Screw, 5/16-18 x 5/8” Special | |
| 14 | 503677 | 1 | Seat Pan | Includes Decals |
| 15 | 366128 | 1 | Foam, Front | |
| 16 | 364509 | 1 | Weather Strip | |
| 17 | 366127 | 1 | Foam, Left Side | |
| 18 | 366380 | 1 | Trim Seal | |
| 19 | 339022 | 1 | Foam, Top | |
| 20 | 461359 | 2 | Roll Pin, 1/8 x 3/4” | |
| 21 | 353746 | 1 | Spring, Compression | |
| 22 | 366376 | 1 | Rod | |
| 23 | 326731 | 1 | Knob | |
| 24 | 452006 | 6 | Flat Washer, 5/16 | |
| 25 | 446134 | 4 | Lockwsher, 5/16 | |
| 26 | 443106 | 4 | Nut, 5/16-18 Hex | |
| 27 | 3006988 | 1 | Adjuster, Slave | |
| 28 | 3006991 | 1 | Adjuster, Latching | |
| 29 | 66170 | 1 | Seat Suspension, Mini | See 51.1 |
| | N/S | 1 | • Mounting Hardware Pack | |
| 30 | 443106 | 4 | • • Nut, 5/16-18 Hex | |
| 31 | 446134 | 4 | • • Lockwasher, 5/16 | |
| 32 | 452006 | 4 | • • Flat Washer, 5/16 | |
| 33 | 554742 | 4 | • • Spacer | |
| 34 | 452010 | 4 | • • Flat Washer, 7/16 | |
| 35 | 441677 | 4 | • • Carriage Bolt, 5/16-18 x 1-1/2 | |
| 36 | 3001328 | 4 | • • Screw, 5/16-18 x 5/8” Special | |
| 37 | 366476 | 1 | Trim Seal | |

> Change from previous revision

## 5.1 Steering Console Support

Serial No. 69158 All

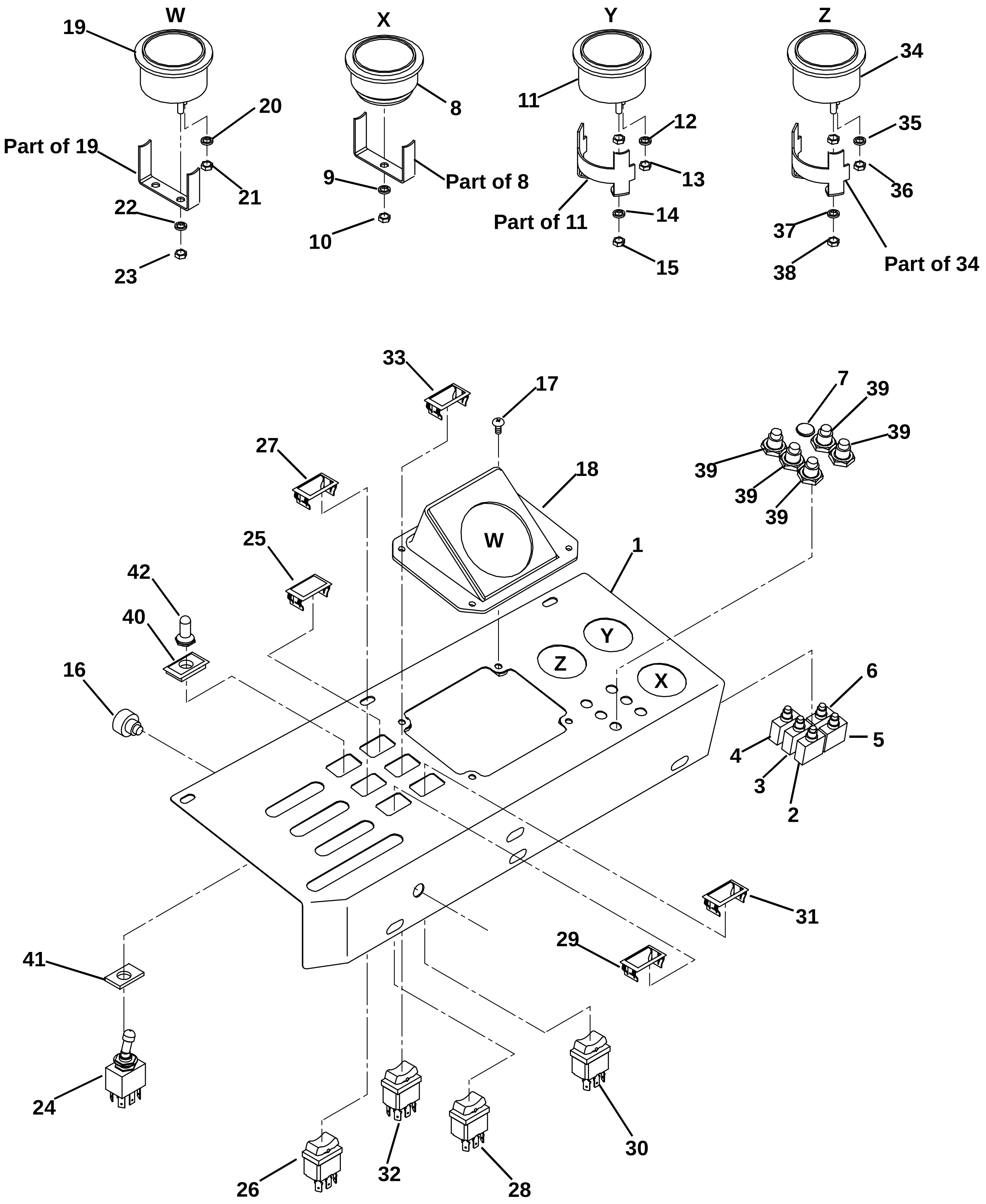


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2720268 | 1 | Support, Steering Console | |
| 2 | 2720191 | 2 | • Bushing | |
| 3 | REF | 1 | Steering Console Assembly | See 9.1 |
| 4 | 401223 | 1 | Screw, 3/4-10 x 4-1/2” Hex Head | |
| 5 | 446178 | 1 | Lockwasher, 3/4 Heavy | |
| 6 | 443130 | 1 | Nut, 3/4-10 Hex | |
| 7 | 400264 | 5 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 8 | 453011 | 8 | Flat Washer, 3/8 | |
| 9 | 446142 | 5 | Lockwasher, 3/8 Heavy | |
| 10 | 443110 | 5 | Nut, 3/8-16 Hex | |
| 11 | 471221 | 1 | Grease Fitting, 90° | |
| 12 | 366125 | 1 | Rod, Console Tilt | |
| 13 | 366523 | 1 | Knob, Tilt | |
| 14 | 443118 | 2 | Nut, 1/2-13 Hex | |
| 15 | 455055 | 1 | Flat Washer, 1/2 | |
| 16 | 1004973 | 1 | Steering Console Cover | |
| 17 | 403759 | 6 | Screw, 1/4-20 x 5/8” Truss Head | |
| 18 | 446130 | 2 | Lockwasher, 1/4 Heavy | |
| 19 | 453023 | 2 | Flat Washer, 1/4 | |
| 20 | 2720266 | 1 | Console Wall | |
| 21 | 400184 | 4 | Screw, 5/16-18 x 3/4” Hex Head | |
| 22 | 446136 | 4 | Lockwasher, 5/16 Heavy | |
| 23 | 455056 | 10 | Flat Washer, 5/16 | |
| 24 | 403760 | 6 | Screw, 5/16-18 x 3/4” Truss Head | |
| 25 | 446271 | 6 | Lockwasher, 5/16 Special | |
| 26 | 445270 | 3 | Nut, Tinnerman | |
| 27 | REF | 1 | Control Panel | See 6.1 |
| 28 | 366458 | 1 | Bracket, Seal | |
| 29 | 366476 | 1 | Trim Seal | |

> Change from previous revision

## 6.1 Control Panel

Serial No. 69158 All

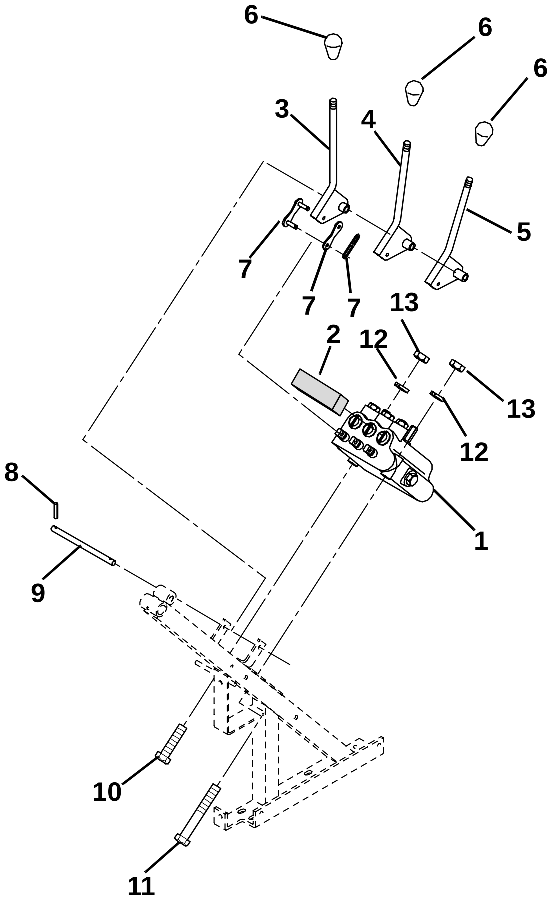


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5002593 | 1 | Control Panel | Includes decals |
| 2 | 338601 | 1 | Circuit Breaker, 10Amp | **REFERENCE CB1, See 67.1** |
| 3 | 338601 | 1 | Circuit Breaker, 10Amp | **REFERENCE CB2, See 67.1** |
| 4 | 338601 | 1 | Circuit Breaker, 10Amp | **REFERENCE CB3, See 67.1** |
| 5 | 338558 | 1 | Circuit Breaker, 30Amp | **REFERENCE CB4, See 67.1** |
| 6 | 338558 | 1 | Circuit Breaker, 30 Amp | **REFERENCE CB5, See 67.1** |
| 7 | 364646 | 1 | Plug, Panel | |
| 8 | 162723 | 1 | Hour Meter | **REFERENCE U5, See 67.1** |
| 9 | 447006 | 2 | • Lockwasher, #10 External Tooth | |
| 10 | 444310 | 1 | • Nut, #10-24 Hex | |
| 11 | 162721 | 1 | Volt Meter | **REFERENCE U4, See 67.1** |
| 12 | 447002 | 3 | • Lockwasher, #6 External Tooth | |
| 13 | 444304 | 3 | • Nut, #6-32 Hex | |
| 14 | 447206 | 2 | • Lockwasher, #8 Internal Tooth | |
| 15 | 444306 | 2 | • Nut, #8-32 Hex | |
| 16 | 162739 | 1 | Switch, Horn / Test | **REFERENCE SW20, See 67.1** |
| 17 | 403759 | 4 | Screw, 1/4-20 x 5/8” Truss Head | |
| 18 | 390989 | 1 | Cover, Tachometer | |
| 19 | 339027 | 1 | Tachometer | **REFERENCE U3, See 67.1** |
| 20 | 447002 | 3 | • Lockwasher, #6 External Tooth | |
| 21 | 444304 | 3 | • Nut, #6-32 Hex | |
| 22 | 447206 | 2 | • Lockwasher, #8 Internal Tooth | |
| 23 | 444306 | 2 | • Nut, #8-32 Hex | |
| 24 | 3001372 | 1 | Switch, PTO | **REFERENCE SW4, See 67.1** |
| 25 | 366932 | 1 | Plug, Panel | |
| 26 | 3001374 | 1 | Switch, Wing Decks | **REFERENCE SW6, See 67.1** |
| 27 | 5003490 | 1 | • Mounting Bezel | |
| 28 | 3001373 | 1 | Switch, Front Deck | **REFERENCE SW7, See 67.1** |
| 29 | 5003490 | 1 | • Mounting Bezel | |
| 30 | 3001371 | 1 | Switch, Cruise Control | **REFERENCE SW22, See 67.1** |
| 31 | 5003490 | 1 | • Mounting Bezel | |
| 32 | 3001370 | 1 | Switch, 4WD | **REFERENCE SW19, See 67.1** |
| 33 | 5003490 | 1 | • Mounting Bezel | |
| 34 | 365943 | 1 | Gauge, Fuel | **REFERENCE U7, See 67.1** |
| 35 | 447002 | 3 | • Lockwasher, #6 External Tooth | |
| 36 | 444304 | 3 | • Nut, #6-32 Hex | |
| 37 | 447206 | 2 | • Lockwasher, #8 Internal Tooth | |
| 38 | 444306 | 2 | • Nut, #8-32 Hex | |
| 39 | 364774 | 5 | Boot, Protective | |
| 40 | 3001386 | 1 | Plug, Lower Panel | |
| 41 | 1000588 | 1 | Plug, Upper Panel | |
| 42 | 363962 | 1 | Toggle Boot | |

> Change from previous revision

## 7.1 Lift Valve

Serial No. 69158 All

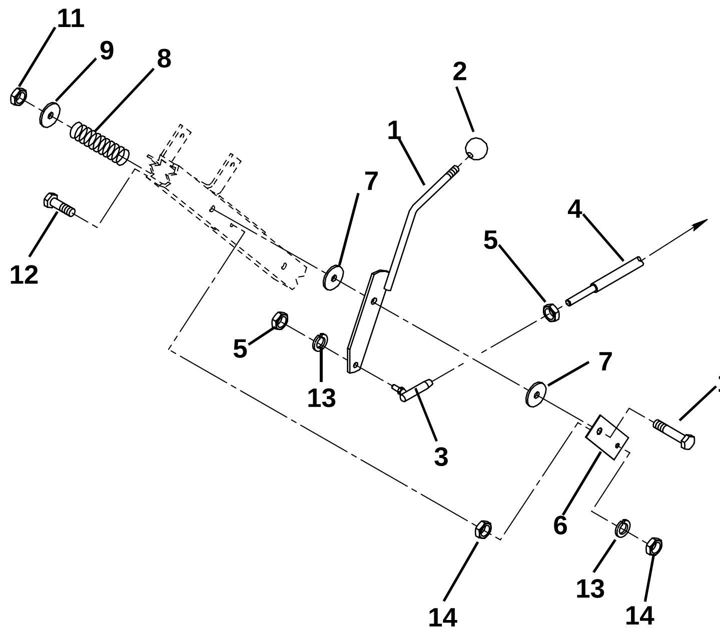



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 1001802 | 1 | Lift Valve | See 54.1 |
| 2 | 366150 | 1 | Weather Strip | |
| 3 | 132473 | 1 | Right Wing Lift Lever | |
| 4 | 132472 | 1 | Center Lift Lever | |
| 5 | 132471 | 1 | Left Wing Lift Lever | |
| 6 | 366522 | 3 | Knob, Lift Lever | |
| 7 | 366133 | 3 | Chain Link | |
| 8 | 461356 | 2 | Roll Pin, 3/32 x 1/2” | |
| 9 | 361833 | 1 | Pin, Lift Lever | |
| 10 | 400124 | 1 | Screw, 1/4-20 x 2-1/2” Hex Head | |
| 11 | 400128 | 1 | Screw, 1/4-20 x 3-1/2” Hex Head | |
| 12 | 446130 | 2 | Lockwasher, 1/4 Heavy | |
| 13 | 443102 | 2 | Nut, 1/4-20 Hex | |

> Change from previous revision

# 8.1 Throttle



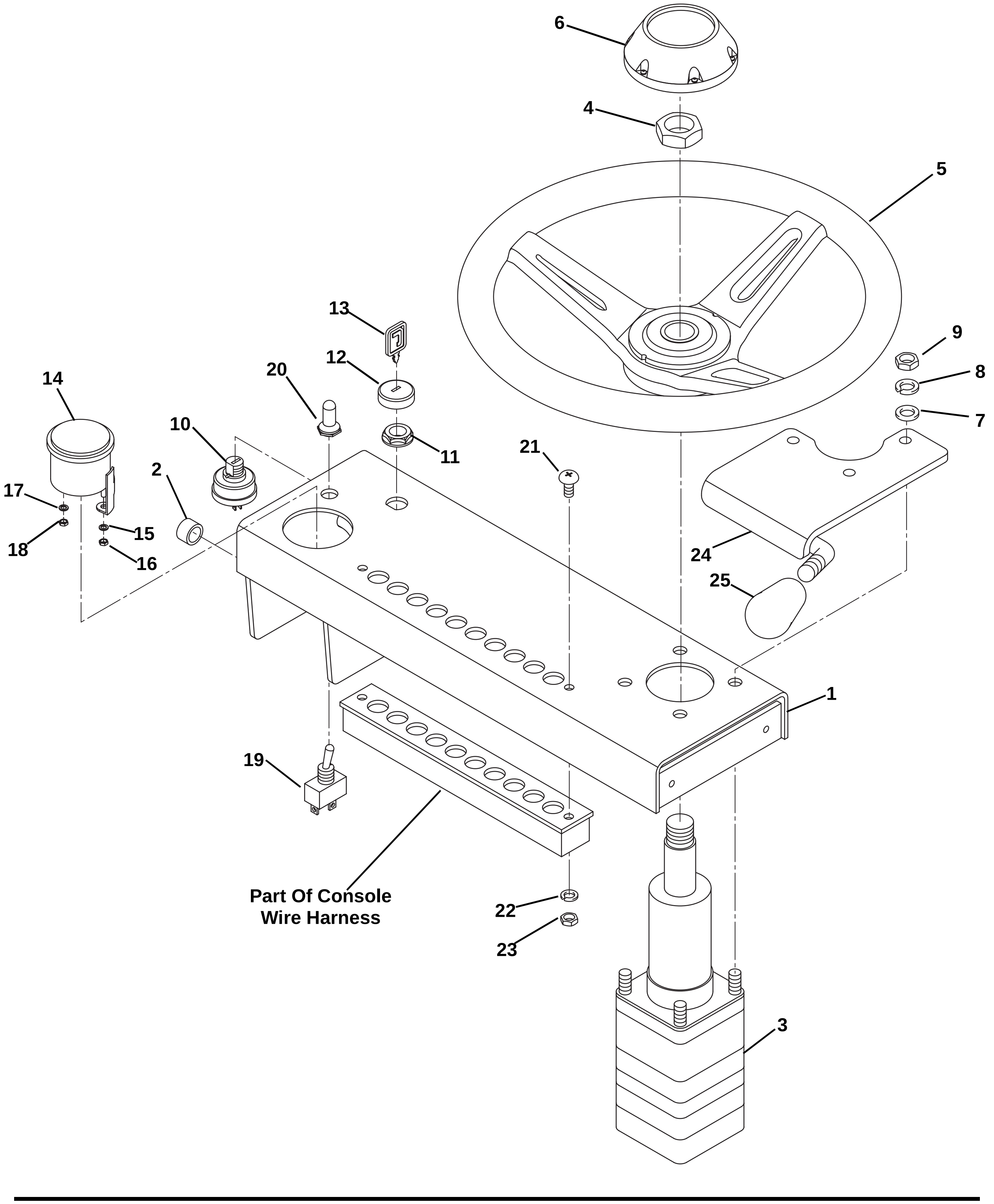



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2720168 | 1 | Lever, Throttle Control | |
| 2 | 326731 | 1 | Knob, Throttle | |
| 3 | 162478 | 1 | Ball Joint | |
| 4 | 339023 | 1 | Cable, Throttle | |
| 5 | 443104 | 2 | Nut, 1/4-28 Hex | |
| 6 | 366132 | 1 | Plate, Throttle | |
| 7 | 360885 | 2 | Disc, Friction | |
| 8 | 315966 | 1 | Spring, Compression | |
| 9 | 319755 | 1 | Washer | |
| 10 | 366134 | 1 | Screw, 3/8-16 x 5” Special | |
| 11 | 444762 | 1 | Locknut, 3/8-16 Center | |
| 12 | 400124 | 1 | Screw, 1/4-20 x 2-1/2” Hex Head | |
| 13 | 446130 | 2 | Lockwasher, 1/4 Heavy | |
| 14 | 443102 | 2 | Nut, 1/4-20 Hex | |

> Change from previous revision

## 9.1 Steering Console

Serial No. All

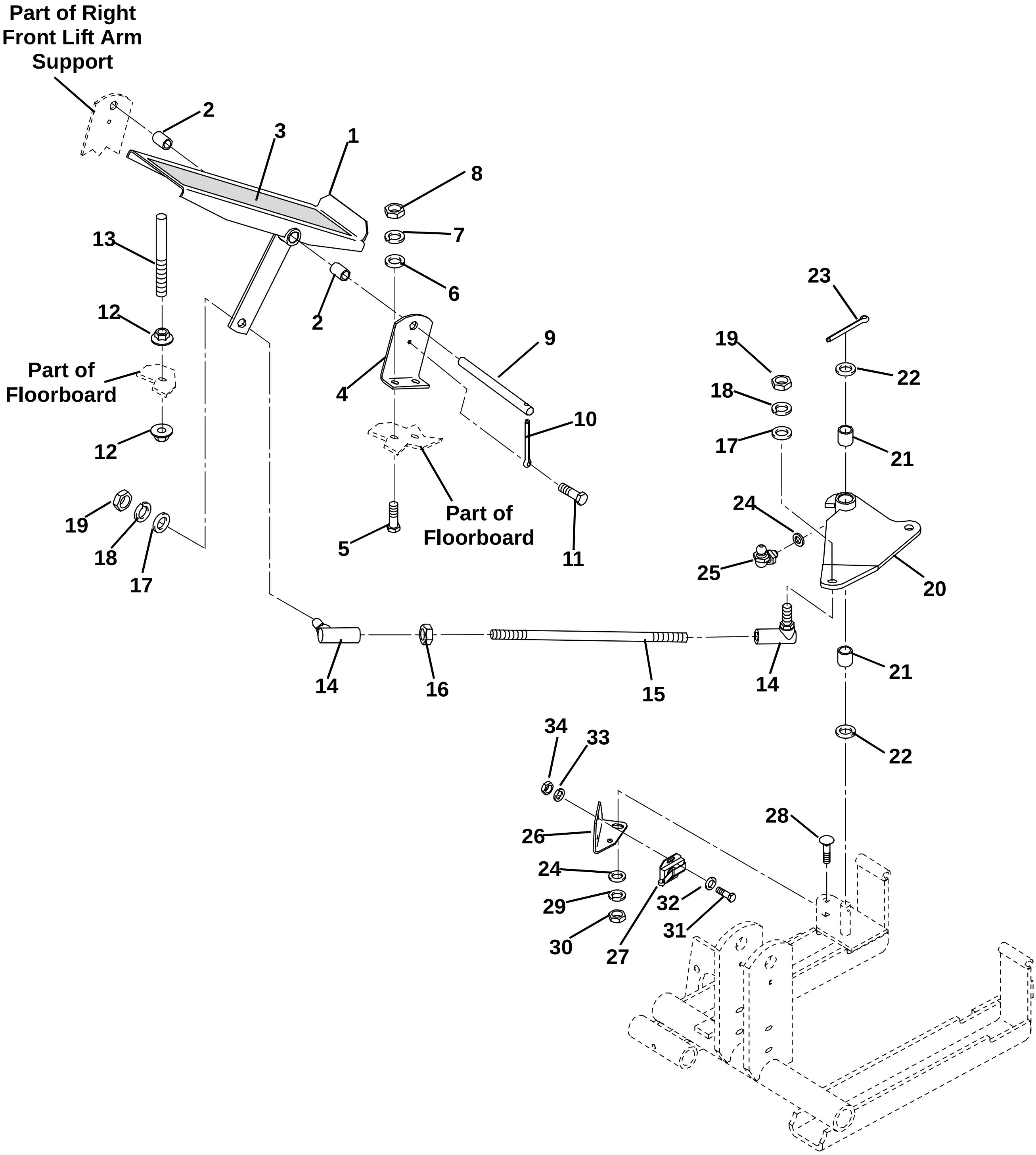


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5002131 | 1 | Steering Console | |
| 2 | 2720191 | 2 | • Bushing | |
| 3 | 1004867 | 1 | Valve, Steering | **See 55.1** |
| 4 | 5000431 | 1 | • Nut, Steering Column | |
| 5 | 557829 | 1 | Steering Wheel | |
| 6 | 557830 | 1 | Steering Wheel Cap | |
| 7 | 453009 | 4 | Flat Washer, 5/16 | |
| 8 | 446136 | 4 | Lockwasher, 5/16 Heavy | |
| 9 | 443108 | 4 | Nut, 5/16-24 Hex | |
| 10 | 1001958 | 1 | Ingition Switch | **REFERENCE SW1, See 67.1** |
| 11 | 5002102 | 1 | • Nut, Black Nylon Face | |
| 12 | 5002101 | 1 | • Bezel, Slotted Rubber | |
| 13 | 5000039 | 2 | • Ignition Key | |
| 14 | 3005121 | 1 | Water Temperature Gauge | **REFERENCE U6, See 67.1** |
| 15 | 447206 | 2 | • Lockwasher, #8 Internal Tooth | |
| 16 | 444306 | 2 | • Nut, #8-32 Hex | |
| 17 | 447002 | 3 | • Lockwasher, #6 External Tooth | |
| 18 | 444304 | 3 | • Nut, #6-32 Hex | |
| 19 | 365043 | 1 | Switch, Glowplug | **REFERENCE SW5, See 67.1** |
| 20 | 363962 | 1 | Toggle Switch Boot | |
| 21 | 403759 | 2 | Screw, 1/4-20 x 5/8” Truss Head | |
| 22 | 446130 | 2 | Lockwasher, 1/4 Heavy | |
| 23 | 443102 | 2 | Nut, 1/4-20 Hex | |
| 24 | 4116465 | 1 | Handle, Operator Assist | |
| 25 | 366523 | 1 | Knob, Operator Assist | |

> Change from previous revision

## 10.1 Traction Pedal Linkage

Serial No. 69158 All

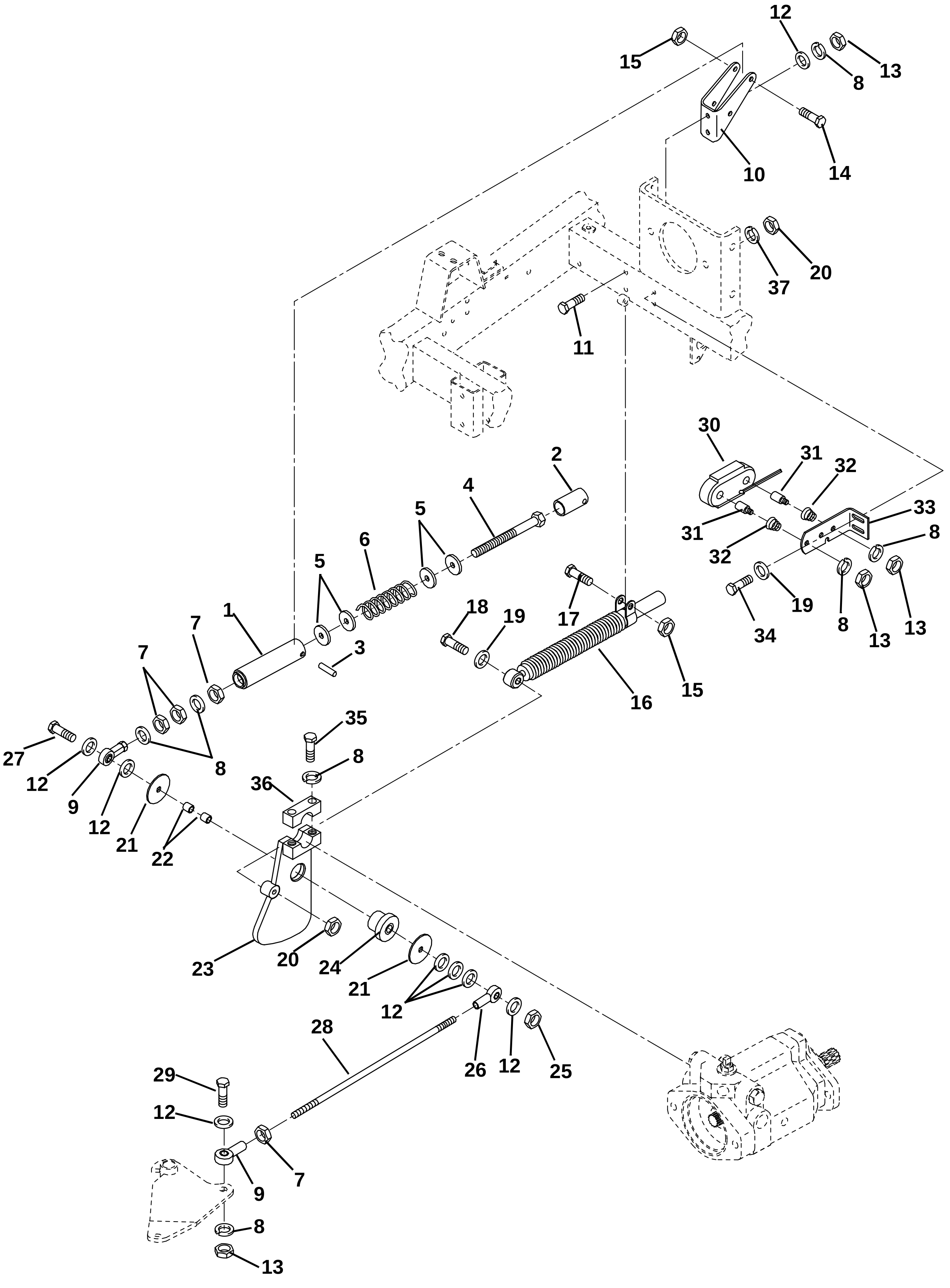


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2720169 | 1 | Traction Pedal | |
| 2 | 2720202 | 2 | • Bushing | |
| 3 | 366573 | 1 | Pad, Traction Pedal Non Slip | |
| 4 | 366129 | 1 | Bracket, Traction Pedal Mounting | |
| 5 | 400188 | 2 | Screw,5/16-18 x 1” Hex Head | |
| 6 | 452006 | 2 | Flat Washer, 5/16 | |
| 7 | 446136 | 2 | Lockwasher, 5/16 Heavy | |
| 8 | 443106 | 2 | Nut, 5/16-18 Hex | |
| 9 | 366082 | 1 | Rod, Traction Pedal Pivot | |
| 10 | 460048 | 1 | Cotter Pin, 3/16 x 1” | |
| 11 | 408866 | 1 | Screw, #10-24 x 5/8” Thread Cutting | |
| 12 | 445781 | 2 | Nut, 5/16-18 Whizlock Flange | |
| 13 | 360462 | 1 | Stud, Pedal Limiting | |
| 14 | 310089 | 2 | Ball Joint | |
| 15 | 366089 | 1 | Rod, Traction Pedal Adjusting | |
| 16 | 443812 | 1 | Nut, 3/8-24 Hex Jam | |
| 17 | 453011 | 2 | Flat Washer, 3/8 | |
| 18 | 446142 | 2 | Lockwasher, 3/8 Heavy | |
| 19 | 443112 | 2 | Nut, 3/8-24 Hex | |
| 20 | 2720209 | 1 | Traction Bell Crank | |
| 21 | 2720215 | 2 | • Bushing | |
| 22 | 453017 | 2 | Flat Washer, 1/2 | |
| 23 | 460028 | 1 | Cotter Pin, 1/8 x 1” | |
| 24 | 453023 | 3 | Flat Washer, 1/4 | |
| 25 | 471214 | 1 | Grease Fitting | |
| 26 | 366394 | 1 | Bracket, Switch | |
| 27 | 1000649 | 1 | Switch, Reverse Sensing | **REFERENCE SW23, See 67.1** |
| 28 | 441606 | 2 | Carriage Bolt, 1/4-20 x 3/4” | |
| 29 | 446130 | 2 | Lockwasher, 1/4 Heavy | |
| 30 | 443102 | 2 | Nut, 1/4-20 Hex | |
| 31 | 403745 | 2 | Screw, #10-24 x 5/8” Hex Head | |
| 32 | 452002 | 2 | Flat Washer, #10 | |
| 33 | 446116 | 2 | Lockwasher, #10 | |
| 34 | 444310 | 2 | Nut, #10-24 Hex | |

> Change from previous revision

## 11.1 Traction Linkage

Serial No. 69158 All

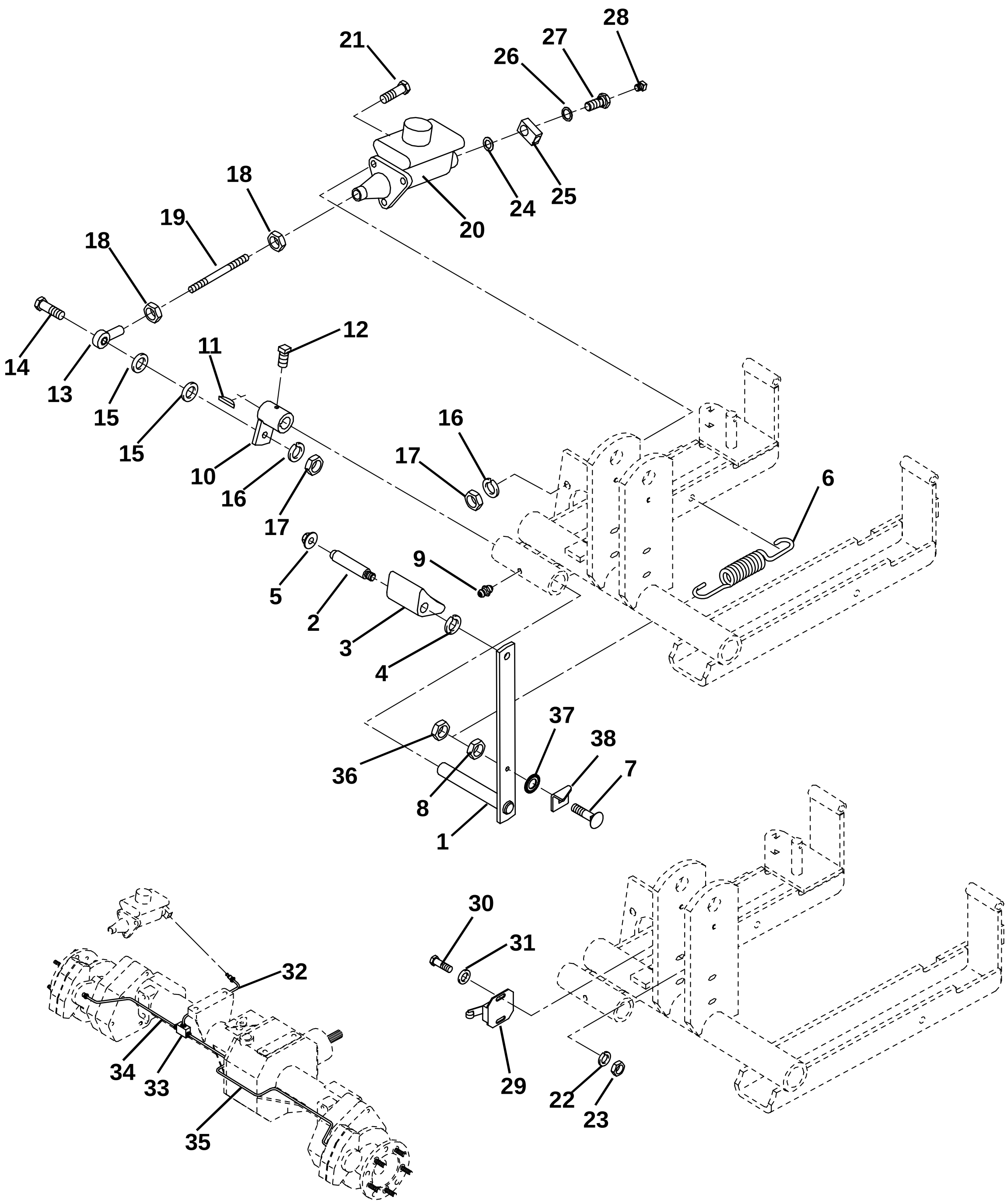


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2500257 | 1 | Tube, Traction Return | |
| 2 | 3007095 | 1 | Stop, Rear Pivot | |
| 3 | 3000593 | 1 | Spacer, Traction Control | |
| 4 | 358795 | 1 | Screw, 3/8-24 x 5-1/2” Special | |
| 5 | 358794 | 4 | Washer | |
| 6 | 364970 | 1 | Spring, Compression | |
| 7 | 443812 | 4 | Nut, 3/8-24 Hex Jam | |
| 8 | 446142 | 7 | Lockwasher, 3/8 Heavy | |
| 9 | 360893 | 2 | Rod End | |
| 10 | 3000594 | 1 | Bracket, Traction Return | |
| 11 | 400276 | 2 | Screw, 3/8-16 x 3” Hex Head | |
| 12 | 453011 | 8 | Flat Washer, 3/8 | |
| 13 | 443110 | 3 | Nut, 3/8-16 Hex | |
| 14 | 400198 | 1 | Screw, 5/16-18 x 2-1/4” Hex Head | |
| 15 | 444718 | 2 | Locknut, 5/16-18 Center | |
| 16 | 2500175 | 1 | Traction Damper | |
| 17 | 400190 | 1 | Screw, 5/16-18 x 1-1/4” Hex Head | |
| 18 | 400194 | 1 | Screw, 5/16-18 x 1-3/4” Hex Head | |
| 19 | 452006 | 3 | Flat Washer, 5/16 | |
| 20 | 443106 | 3 | Nut, 5/16-18 Hex | |
| 21 | 362819 | 2 | Washer | |
| 22 | 304718 | 2 | Bushing | |
| 23 | 2246004 | 1 | Traction Arm | |
| 24 | 359949 | 1 | Rubber Mount, Traction Arm | |
| 25 | 444762 | 1 | Locknut, 3/8-16 Center | |
| 26 | 366317 | 1 | Rod End | |
| 27 | 401028 | 1 | Screw, 3/8-16 x 3-1/4” Hex Head | |
| 28 | 366088 | 1 | Rod, Traction Pump Adjusting | |
| 29 | 400264 | 1 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 30 | 340783 | 1 | Magnet, Cruise Control | **REFERENCE K16, See 67.1** |
| 31 | 367456 | 2 | Pin, Magnet Support | |
| 32 | 363771 | 2 | Spring | |
| 33 | 367457 | 1 | Bracket, Cruise Control Magnet | |
| 34 | 400202 | 2 | Screw, 5/16-18 x 3” Hex Head | |
| 35 | 400268 | 2 | Screw, 3/8-16 x 1-3/4” Hex Head | |
| 36 | 2243002 | 2 | Block, top | |
| 37 | 446136 | 2 | Lockwasher, 5/16 Heavy | |

> Change from previous revision

## 12.1 Brake Pedal

Serial No. 69158 All

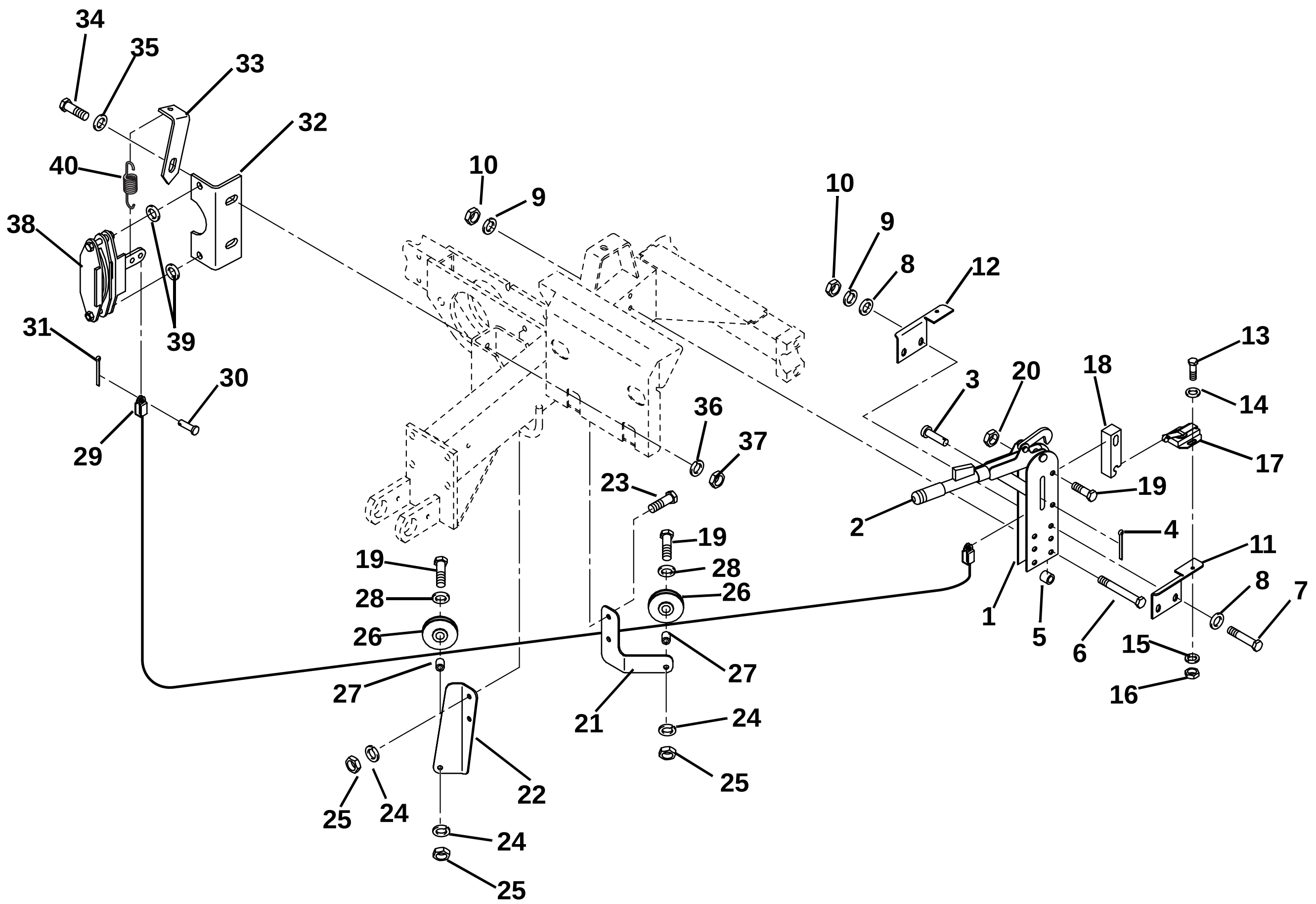


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 132470 | 1 | Brake Pedal | |
| 2 | 2720393 | 1 | Pin, Pedal | |
| 3 | 345020 | 1 | Pad, Brake Pedal | |
| 4 | 446148 | 1 | Lockwasher, 7/16 Heavy | |
| 5 | 343256 | 1 | Nut, Pedal Pin | |
| 6 | 350558 | 1 | Spring, Pedal Return | |
| 7 | 441668 | 1 | Carriage Bolt, 1/4-20 x 1-1/4” | |
| 8 | 443102 | 1 | Nut, 1/4-20 Hex | |
| 9 | 471214 | 1 | Grease Fitting, Straight | |
| 10 | 163935 | 1 | Hub, Brake | |
| 11 | 463017 | 1 | Key, 3/16 x 3/4” Woodruff | |
| 12 | 412005 | 1 | Screw, 1/4-20 x 1/2” Square Head | |
| 13 | 360893 | 1 | Rod End | |
| 14 | 400266 | 1 | Screw, 3/8-16 x 1-1/2” Hex Head | |
| 15 | 453011 | 2 | Flat Washer, 3/8 | |
| 16 | 446142 | 4 | Lockwasher, 3/8 Heavy | |
| 17 | 443110 | 4 | Nut, 3/8-16 Hex | |
| 18 | 443812 | 2 | Nut, 3/8-24 Hex Jam | |
| 19 | 359904 | 1 | Rod, Brake Pedal Adjustment | |
| 20 | 1002434 | 1 | Master Cylinder | |
| 21 | 400264 | 3 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 22 | 446116 | 2 | Lockwasher, #10 | |
| 23 | 444310 | 2 | Nut, #10-24 Hex | |
| 24 | 319277 | 1 | Gasket | |
| 25 | 366146 | 1 | Fitting | |
| 26 | 319276 | 1 | Gasket | |
| 27 | 319279 | 1 | Fitting | |
| 28 | 472201 | 1 | Plug, 1/8” NPT Square Head | |
| 29 | 1000649 | 1 | Switch, Brake Pedal | **REFERENCE SW21, See 67.1** |
| 30 | 403745 | 2 | Screw, #10-24 x 3/4” Hex Head | |
| 31 | 452002 | 2 | Flat Washer, #10 | |
| 32 | 122959 | 1 | Tube, Master Cylinder to Fitting | |
| 33 | 366147 | 1 | Fitting, 3 Way Brake Line | |
| 34 | 122957 | 1 | Tube, Fitting to Right Side Caliper | |
| 35 | 122958 | 1 | Tube, Fitting to Left Side Caliper | |
| 36 | 444708 | 1 | Locknut, 1/4-20 Center | |
| 37 | 447010 | 1 | Lockwasher, 5/16 External Tooth | |
| 38 | 4108840 | 1 | Plate, Brake Switch Activator | |

> Change from previous revision

## 13.1 Parking Brake

Serial No. 69158 All

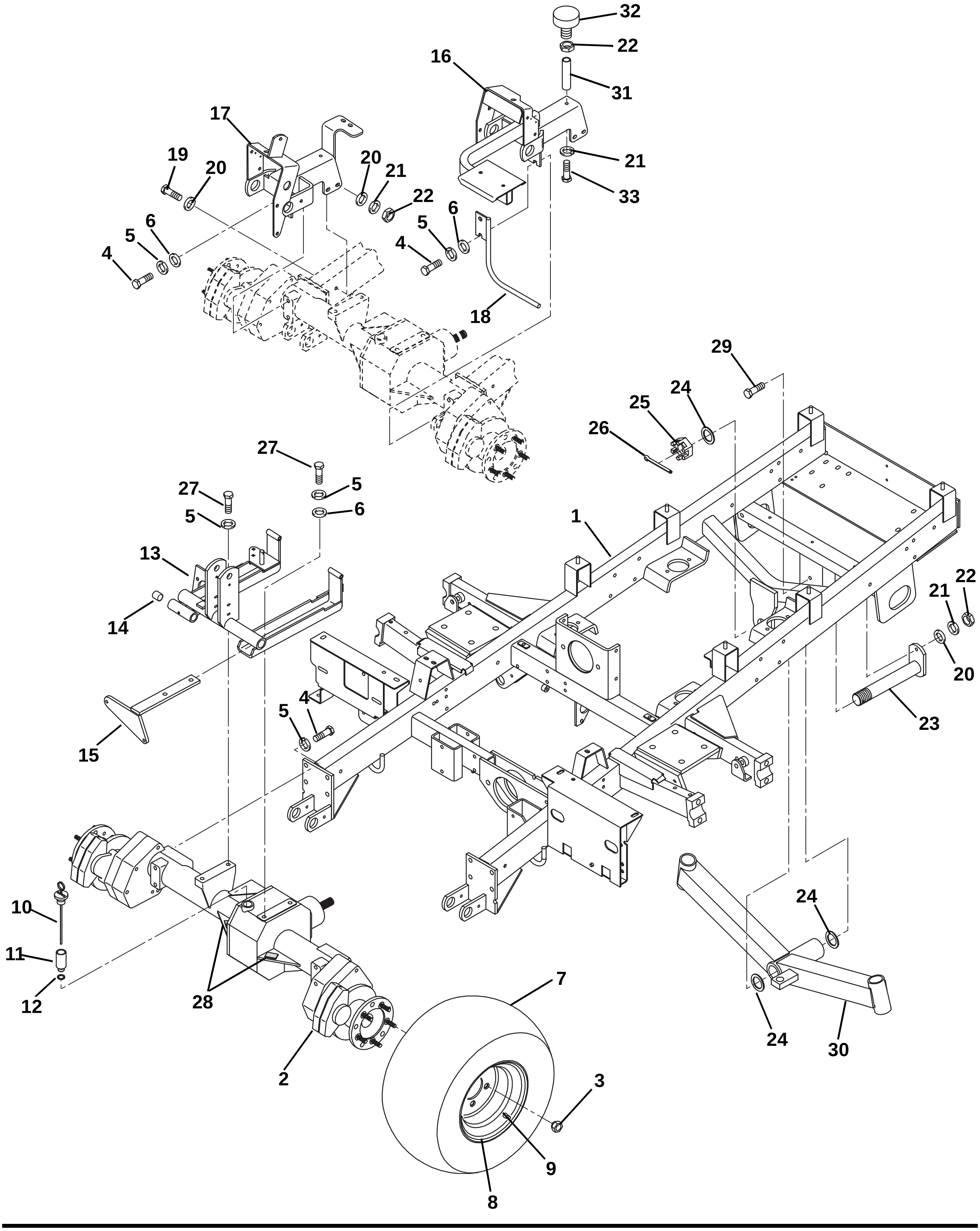


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 163931 | 1 | Parking Brake Lever | |
| 2 | 555855 | 1 | • Parking Brake Handle | |
| 3 | 461455 | 1 | • Pin, Parking Brake | |
| 4 | 460016 | 1 | • Cotter Pin, 3/32 x 1” | |
| 5 | 366341 | 5 | • Spacer | |
| 6 | 401166 | 3 | Screw, 5/16-18 x 3-3/4” Hex Head | |
| 7 | 400194 | 2 | Screw, 5/16-18 x 1-3/4” Hex Head | |
| 8 | 453009 | 4 | Flat Washer, 5/16 | |
| 9 | 446136 | 5 | Lockwasher, 5/16 Heavy | |
| 10 | 443106 | 5 | Nut, 5/16-18 Hex | |
| 11 | 340417 | 1 | Bracket, Left Side Brake Switch | |
| 12 | 340418 | 1 | Bracket, Right Side Brake Switch | |
| 13 | 403745 | 2 | Screw, #10-24 x 5/8” Hex Head | |
| 14 | 452002 | 2 | Flat Washer, #10 | |
| 15 | 446116 | 2 | Lockwasher, #10 | |
| 16 | 444310 | 2 | Nut, #10-24 Hex | |
| 17 | 1000649 | 1 | Switch, Parking Brake | **REFERENCE SW2, See 67.1** |
| 18 | 366428 | 1 | Actuator, Parking Brake Switch | |
| 19 | 400266 | 3 | Screw, 3/8-16 x 1-1/2” Hex Head | |
| 20 | 444762 | 1 | Locknut, 3/8-16 Center | |
| 21 | 339025 | 1 | Bracket, Rear Cable Guide Pulley | |
| 22 | 339024 | 1 | Bracket, Front Cable Guide Pulley | |
| 23 | 400278 | 2 | Screw, 3/8-16 x 3-1/2” Hex Head | |
| 24 | 446142 | 4 | Lockwasher, 3/8 Hex | |
| 25 | 443110 | 4 | Nut, 3/8-16 Hex | |
| 26 | 338383 | 2 | Pulley, Parking Brake Cable | |
| 27 | 350063 | 2 | Spacer | |
| 28 | 453011 | 2 | Flat Washer, 3/8 | |
| 29 | 163940 | 1 | Cable, Parking Brake | |
| 30 | 461451 | 1 | Clevis Pin, 5/16 x 15/16 | |
| 31 | 460016 | 1 | Cotter Pin, 3/32 x 1” | |
| 32 | 336591 | 1 | Bracket, Parking Brake Caliper | |
| 33 | 359574 | 1 | Bracket, Release Spring | |
| 34 | 400408 | 2 | Screw, 1/2-13 x 1-1/2” Hex Head | |
| 35 | 453017 | 2 | Flat Washer, 1/2 | |
| 36 | 446154 | 2 | Lockwasher, 1/2 Heavy | |
| 37 | 443118 | 2 | Nut, 1/2-13 Hex | |
| 38 | 503308 | 1 | Caliper, Parking Brake | **See 57.1** |
| 39 | 343117 | 2 | Shim, Brake | |
| 40 | 331140 | 1 | Spring, Parking Brake Release | |

> Change from previous revision

## 14.1 Frame and Front Axle

Serial No. 69158 All

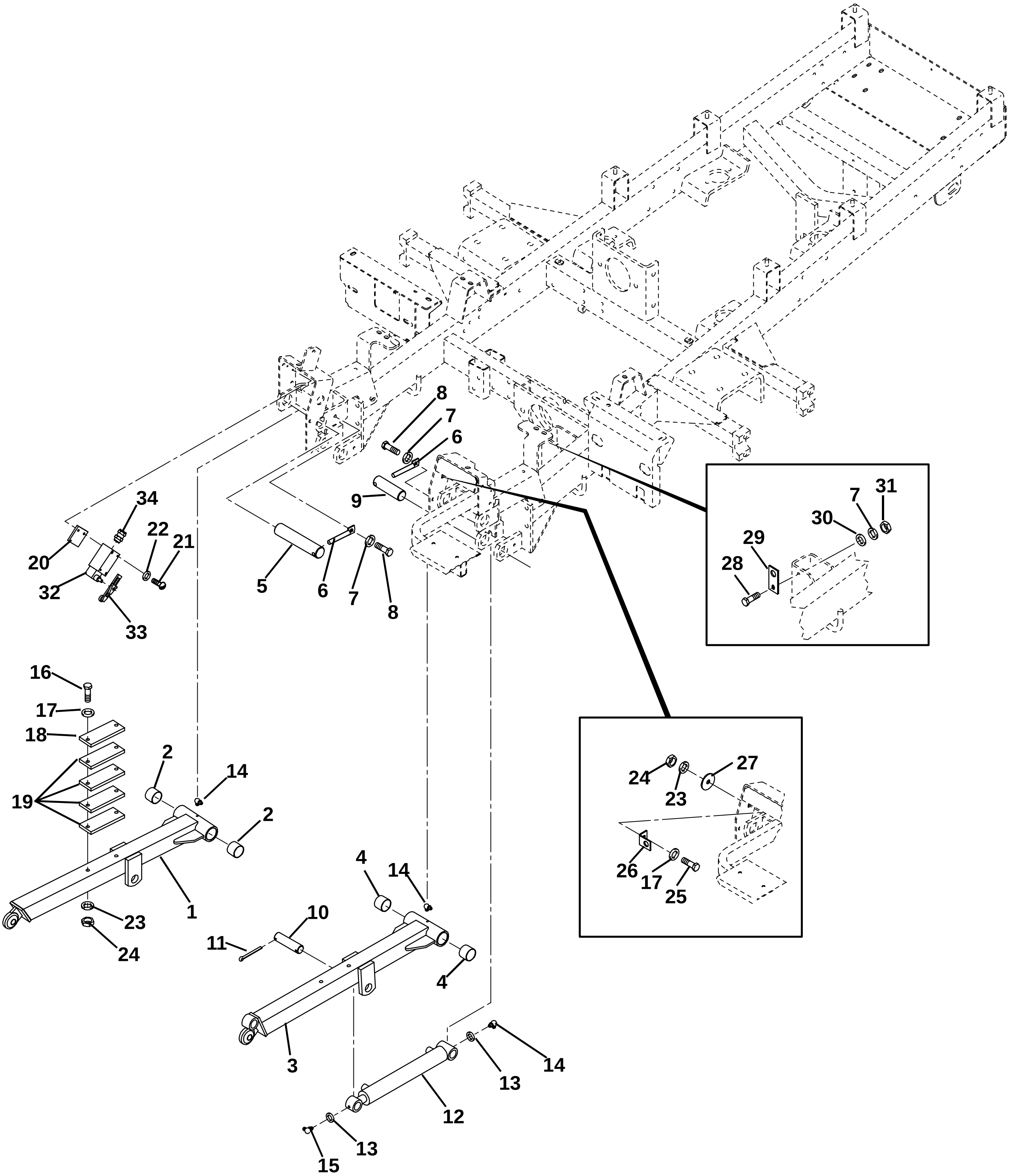


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2246001 | 1 | Frame | |
| 2 | 1003327 | 1 | Axle, Front | See 62.1 |
| 3 | 556891 | 10 | • Nut, M14-1.5 Wheel | |
| 4 | 363386 | 12 | Screw, M12-1.75 x 30 mm | |
| 5 | 446154 | 16 | Lockwasher, 1/2 Heavy | |
| 6 | 453017 | 8 | Flat Washer, 1/2 | |
| 7 | 366292 | 2 | Tire, 26 x 12 - 12 6 Ply | |
| 8 | 1003752 | 2 | Rim, 26 x 12 - 12 | |
| 9 | 360111 | 2 | Valve, Tire Inflation | |
| 10 | 366364 | 1 | Dipstick | |
| 11 | 366365 | 1 | Tube | |
| 12 | 366366 | 1 | O-Ring | |
| 13 | 2246002 | 1 | Platform Support | |
| 14 | 2720191 | 2 | • Bushing | |
| 15 | 2720167 | 1 | Bracket, Front Deck Valve | |
| 16 | 4114469 | 1 | Left Side Front Lift Arm Support | |
| 17 | 2720240 | 1 | Right Side Front Lift Arm Support | |
| 18 | 132586 | 2 | Scraper | |
| 19 | 401028 | 4 | Screw, 3/8-16 x 3-1/4” Hex Head | |
| 20 | 453011 | 9 | Flat Washer, 3/8 | |
| 21 | 446142 | 6 | Lockwasher, 3/8 Heavy | |
| 22 | 443110 | 6 | Nut, 3/8-16 Hex | |
| 23 | 163927 | 1 | Pivot, Steering Axle | |
| 24 | 364830 | 3 | Washer | |
| 25 | 445642 | 1 | Nut, 1-1/2-12 Slotted Hex | |
| 26 | 460072 | 1 | Cotter Pin, 1/4 x 2-1/2” | |
| 27 | 362525 | 4 | Screw, M12-1.75 x 40 mm | |
| 28 | 558012 | 2 | Pad | |
| 29 | 400266 | 1 | Screw, 3/8-16 x 1-1/2” Hex Head | |
| 30 | REF | 1 | Steering Axle | See 18.1 |
| 31 | 4114461 | 1 | Shaft, Platform Sopport | |
| 32 | 361723 | 1 | Bumper | |
| 33 | 400260 | 1 | Screw, 3/8-16 x 7/8” Hex Head | |

> Change from previous revision

## 15.1 Front Lift Arms

Serial No. 69158 All



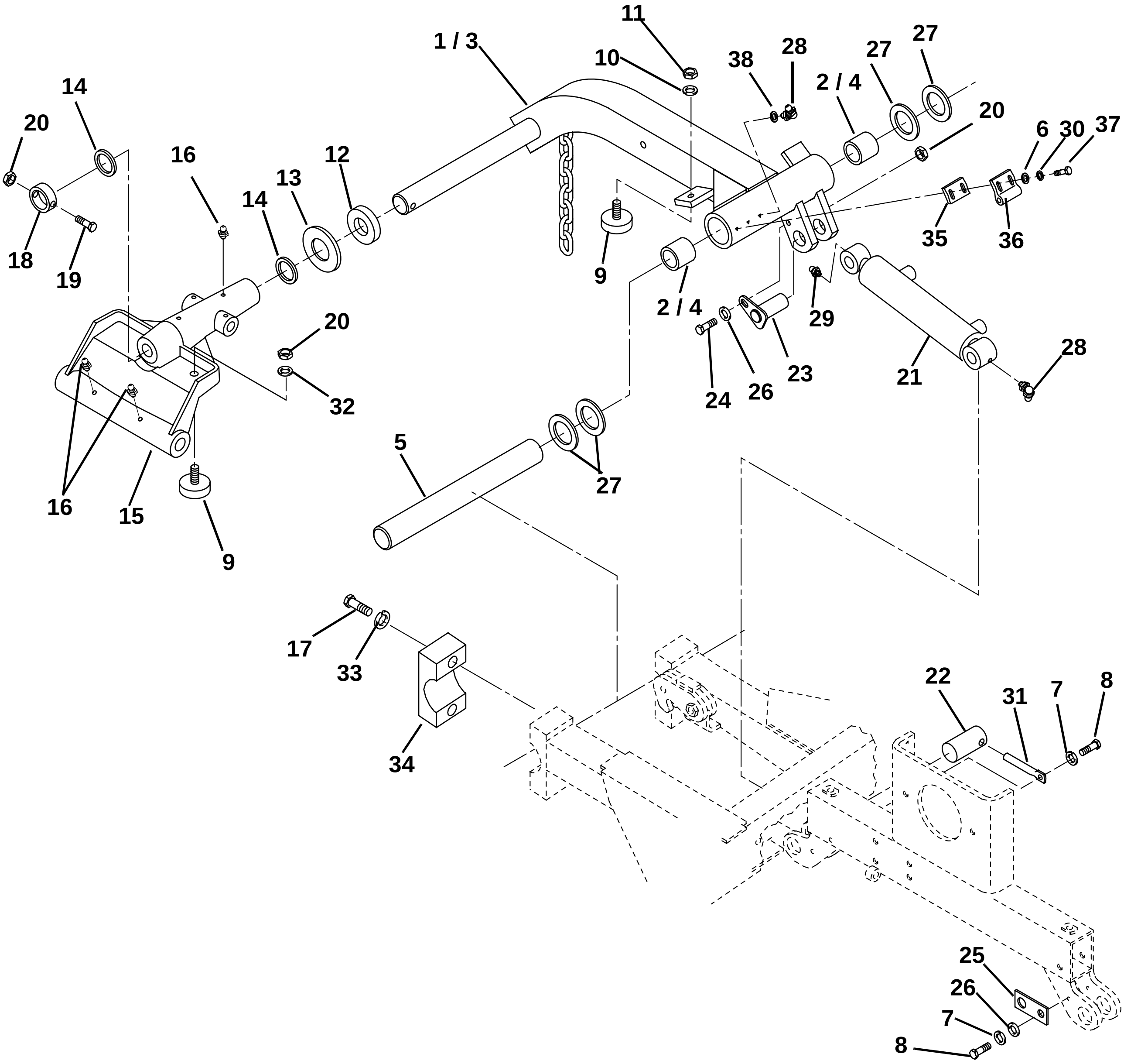
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2720206 | 1 | Right Front Lift Arm | |
| 2 | 342033 | 2 | • Bushing | |
| 3 | 2720207 | 1 | Left Front Lift Arm | |
| 4 | 342033 | 2 | • Bushing | |
| 5 | 366037 | 2 | Shaft, Lift Arm Pivot | |
| 6 | 346091 | 4 | Pin, Retaining | |
| 7 | 446136 | 5 | Lockwasher, 5/16 Heavy | |
| 8 | 400184 | 4 | Screw, 5/16-18 x 3/4” Hex Head | |
| 9 | 366045 | 2 | Pin, Lift Cylinder | |
| 10 | 359549 | 2 | Pin, Lift Cylinder | |
| 11 | 460052 | 4 | Cotter Pin, 3/16 x 1-1/2” | |
| 12 | 132871 | 1 | Lift Cylinder | |
| | 5001091 | 1 | • Seal Kit | |
| 13 | 453023 | 4 | Flat Washer, 1/4 | |
| 14 | 471221 | 4 | Grease Fitting, 90° | |
| 15 | 471227 | 2 | Grease Fitting, 45° | |
| 16 | 400276 | 4 | Screw, 3/8-16 x 3” Hex Head | |
| 17 | 453011 | 5 | Flat Washer, 3/8 | |
| 18 | 366473 | 2 | Bumper, Lift Arm | |
| 19 | 366610 | AR | Shim, 0.26” Thick | Add or remove shims as required to level front deck. See Adjustment section for details. |
| 19 | 366611 | AR | Shim, 0.1975” Thick | |
| 19 | 366612 | AR | Shim, 0.135 Thick | |
| 19 | 366613 | AR | Shim, 0.105 Thick | |
| 20 | 366603 | 1 | Spacer, Limit Switch | |
| 21 | 402132 | 2 | Screw, #10-24 x 1-3/4” Slotted | |
| 22 | 446118 | 2 | Lockwasher, #10 Medium | |
| 23 | 446142 | 5 | Lockwasher, 3/8 Heavy | |
| 24 | 443110 | 5 | Nut, 3/8-16 Hex | |
| 25 | 400262 | 1 | Screw, 3/8-16 x 1” Hex Head | |
| 26 | 366438 | 1 | Bracket, Bulkhead | |
| 27 | 362819 | 1 | Washer | |
| 28 | 400188 | 1 | Screw, 5/16-18 x 1” Hex Head | |
| 29 | 366437 | 1 | Bracket, Bulkhead | |
| 30 | 452006 | 1 | Flat Washer, 5/16 | |
| 31 | 443106 | 1 | Nut, 5/16-18 Hex | |
| 32 | 3001079 | 1 | Switch, Front Limit | **REFERENCE SW10, See 67.1** |
| | 5000183 | 1 | • Basic Switch | |
| | 5000184 | 1 | • Operator Head | |
| 33 | 3001078 | 1 | Actuator Arm | |
| 34 | 364694 | 1 | Connector | |

> Change from previous revision

## 16.1 Wing Lift Arms

Serial No. 69158 All

**Right Wing Shown**

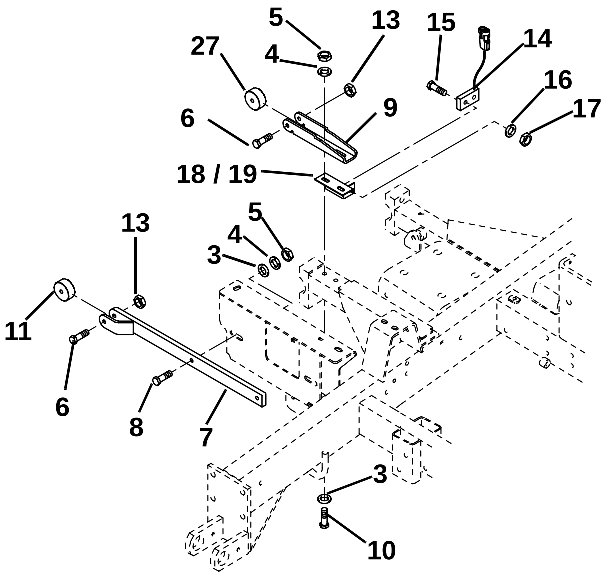


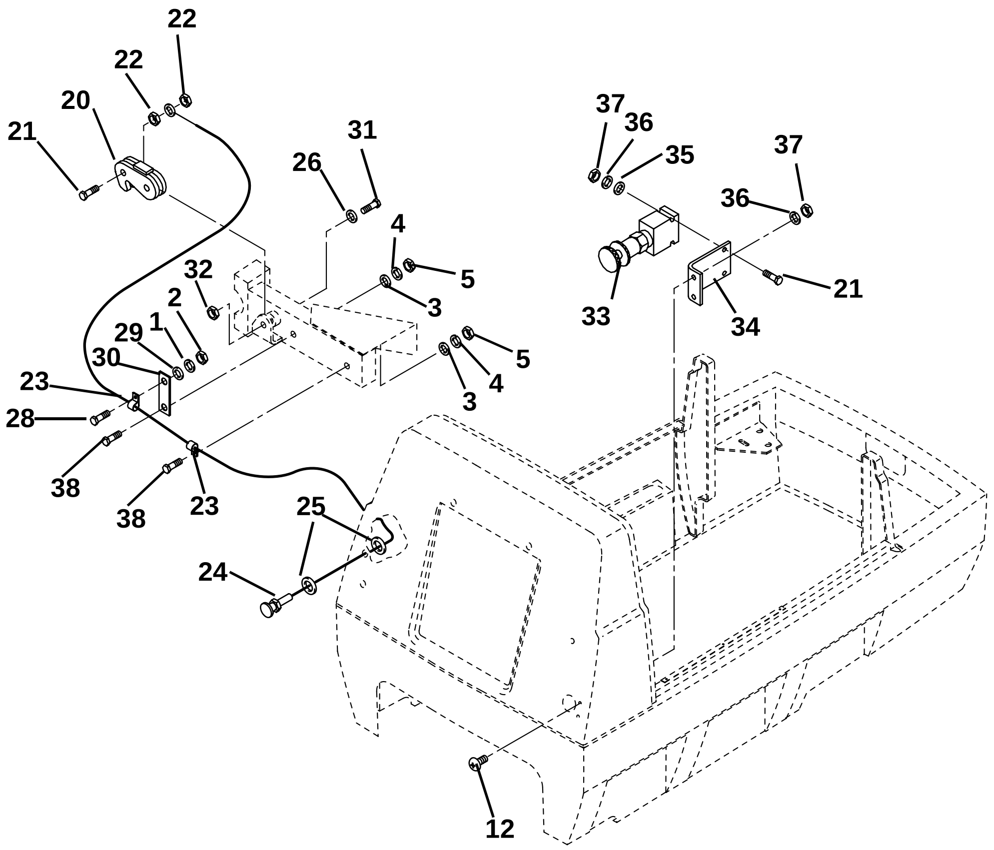
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2720295 | 1 | Right Wing Arm | |
| 2 | 2720298 | 2 | • Bushing | |
| 3 | 2720294 | 1 | Left Wing Arm (Not Shown) | |
| 4 | 2720298 | 2 | • Bushing | |
| 5 | 2248004 | 2 | Shaft, Pivot Arm | |
| 6 | 453004 | 4 | Flat Washer, #10 | |
| 7 | 446136 | 3 | Lockwasher, 5/16 Heavy | |
| 8 | 400184 | 3 | Screw, 5/16-18 x 3/4” Hex Head | |
| 9 | 361723 | 6 | Stop, Rubber | |
| 10 | 446142 | 2 | Lockwasher, 3/8 Heavy | |
| 11 | 443110 | 2 | Nut, 3/8-16 Hex | |
| 12 | 366506 | 2 | Washer, Thrust | |
| 13 | 366517 | 12 | Washer, Belleville | |
| 14 | 362824 | 4 | Spacer | |
| 15 | 503553 | 2 | Casting, Pivot | |
| 16 | 471216 | 3 | • Grease Fitting, Straight | |
| 17 | 400650 | 8 | Screw, 5/8-18 x 2-1/2” Hex Head | |
| 18 | 364248 | 2 | Collar | |
| 19 | 400272 | 2 | Screw, 3/8-16 x 2-1/4” Hex Head | |
| 20 | 444762 | 8 | Locknut, 3/8-16 Center | |
| 21 | 3003524 | 2 | Lift Cylinder | |
| | 5001427 | 1 | • Seal Kit | |
| 22 | 366483 | 2 | Pin, Wing Cylinder | |
| 23 | 4107220 | 2 | Pin, Cylinder | |
| 24 | 400262 | 2 | Screw, 3/8-16 x 1: Hex Head | |
| 25 | 366437 | 1 | Bracket, Bulkhead | |
| 26 | 452006 | 3 | Flat Washer, 5/16 | |
| 27 | 364830 | AR | Washer, Shim | |
| 28 | 471221 | 4 | Grease Fitting, 90° | |
| 29 | 471214 | 2 | Grease Fitting, Straight | |
| 30 | 446118 | 4 | Lockwasher, #10 Medium | |
| 31 | 346091 | 2 | Pin, Retaining | |
| 32 | 453011 | 4 | Flat Washer, 3/8 | |
| 33 | 446166 | 8 | Lockwasher, 5/8 Heavy | |
| 34 | 2242015 | 4 | Block, Shaft | |
| 35 | 3007568 | 2 | Shim | |
| 36 | 367149 | 2 | Magnet, Switch Actuator | |
| 37 | 402120 | 4 | Screw, #10-24 x 5/8” Slotted | |
| 38 | 453023 | 2 | Flat Washer, 1/4 | |

> Change from previous revision

## 17.1 Wing Deck Latch

Serial No. 69158 All



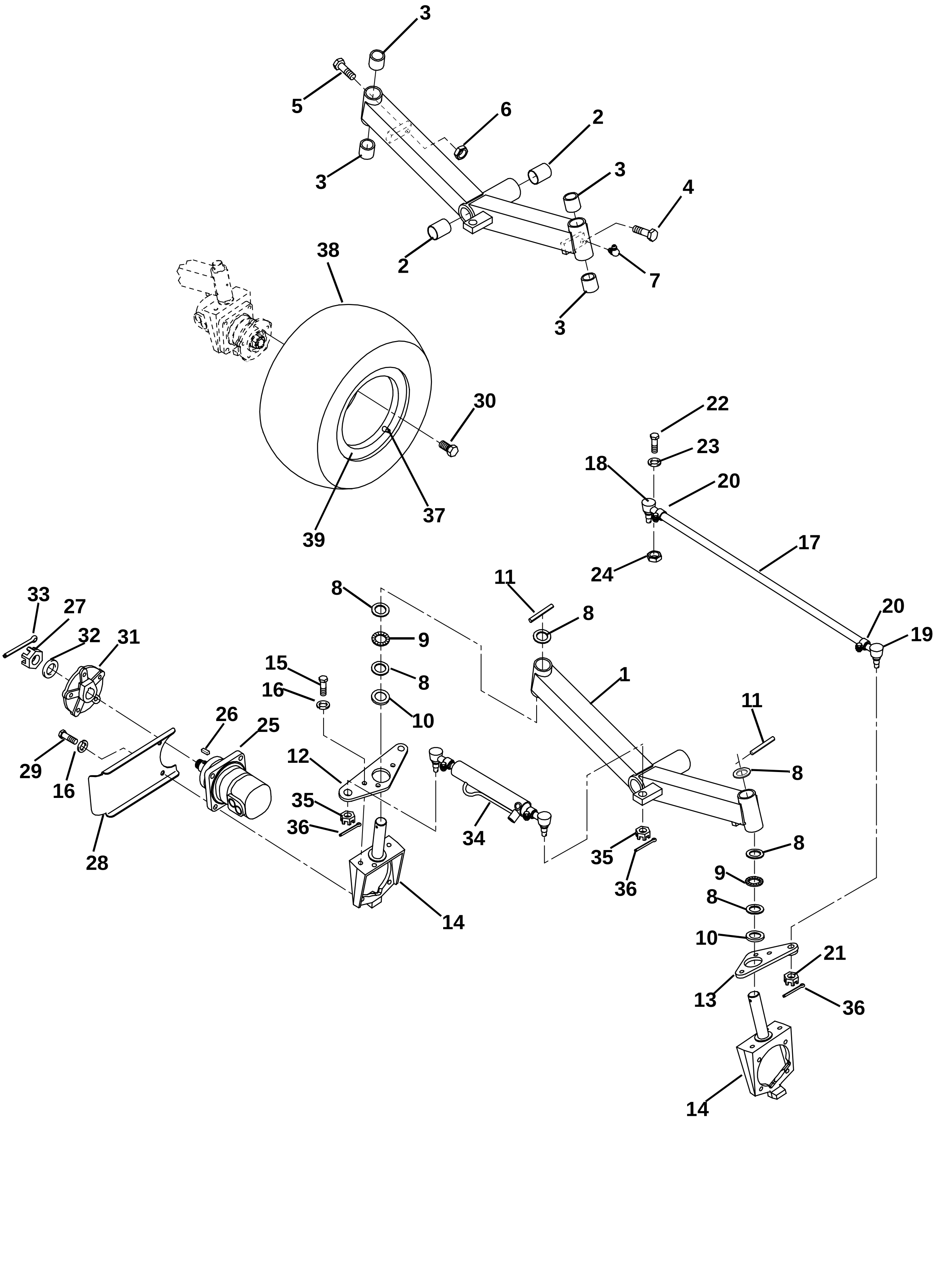



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 446136 | 2 | Lockwasher, 5/16 Heavy | |
| 2 | 443106 | 2 | Nut, 5/16-18 Hex | |
| 3 | 453011 | 12 | Flat Washer, 3/8 | |
| 4 | 446142 | 12 | Lockwasher, 3/8 Heavy | |
| 5 | 443110 | 12 | Nut, 3/8-16 Hex | |
| 6 | 400272 | 4 | Screw, 3/8-16 x 2-1/4” Hex Head | |
| 7 | 132601 | 1 | Bracket, Deck Roller | |
| 8 | 400264 | 4 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 9 | 340525 | 2 | Bracket, Deck Roller | |
| 10 | 400280 | 4 | Screw, 3/8-16 x 4” Hex Head | |
| 11 | 3005677 | 2 | Roller, Front Wing Deck | |
| 12 | 404022 | 2 | Screw, 1/4-20 x 1” Truss Head | |
| 13 | 444672 | 4 | Locknut, 3/8-16 Center | |
| 14 | 366989 | 2 | Switch, Deck Limit | **REFERENCE SW8 & SW9, See 67.1** |
| 15 | 403766 | 4 | Screw, #4-40 x 3/4” Slotted Brass | |
| 16 | 446102 | 4 | Lockwasher, #4 | |
| 17 | 444302 | 4 | Nut, #4-40 Hex | |
| 18 | 3006052 | 1 | Bracket, Right Side Switch | |
| 19 | 3006053 | 1 | Bracket, Left Side Switch | |
| 20 | 132664 | 2 | Hook, Deck Latch | |
| 21 | 400120 | 4 | Screw, 1/4-20 x 2” Hex Head | |
| 22 | 444708 | 4 | Locknut, 1/4-20 Center | |
| 23 | 324887 | 4 | Clip, Deck Latch Cable | |
| 24 | 366566 | 2 | Cable, Deck Latch | |
| 25 | 452008 | 4 | Flat Washer, 3/8 | |
| 26 | 453017 | 2 | Flat Washer, 1/2 | |
| 27 | 3005678 | 2 | Rear Wing Deck Roller | |
| 28 | 400184 | 2 | Screw, 5/16-18 x 3/4” Hex Head | |
| 29 | 452006 | 2 | Flat Washer, 5/16 | |
| 30 | 366929 | 2 | Plate, Clip Mounting | |
| 31 | 400422 | 2 | Screw, 1/2-13 x 4” Hex Head | |
| 32 | 444758 | 2 | Locknut, 1/2-13 Center | |
| 33 | 132523 | 2 | Valve, Back Pressure | |
| | 555862 | 1 | • Cartridge, Valve | |
| | 555861 | 1 | • Seal Kit | |
| 34 | 367465 | 1 | Bracket, Valve Mounting | |
| 35 | 453023 | 2 | Flat Washer, 1/4 | |
| 36 | 446130 | 4 | Lockwasher, 1/4 Heavy | |
| 37 | 443102 | 4 | Nut, 1/4-20 Hex | |
| 38 | 400272 | 4 | Screw, 3/8-16 x 2-1/4” Hex Head | |

> Change from previous revision

## 18.1 Steering Axle

Serial No. 69158 All

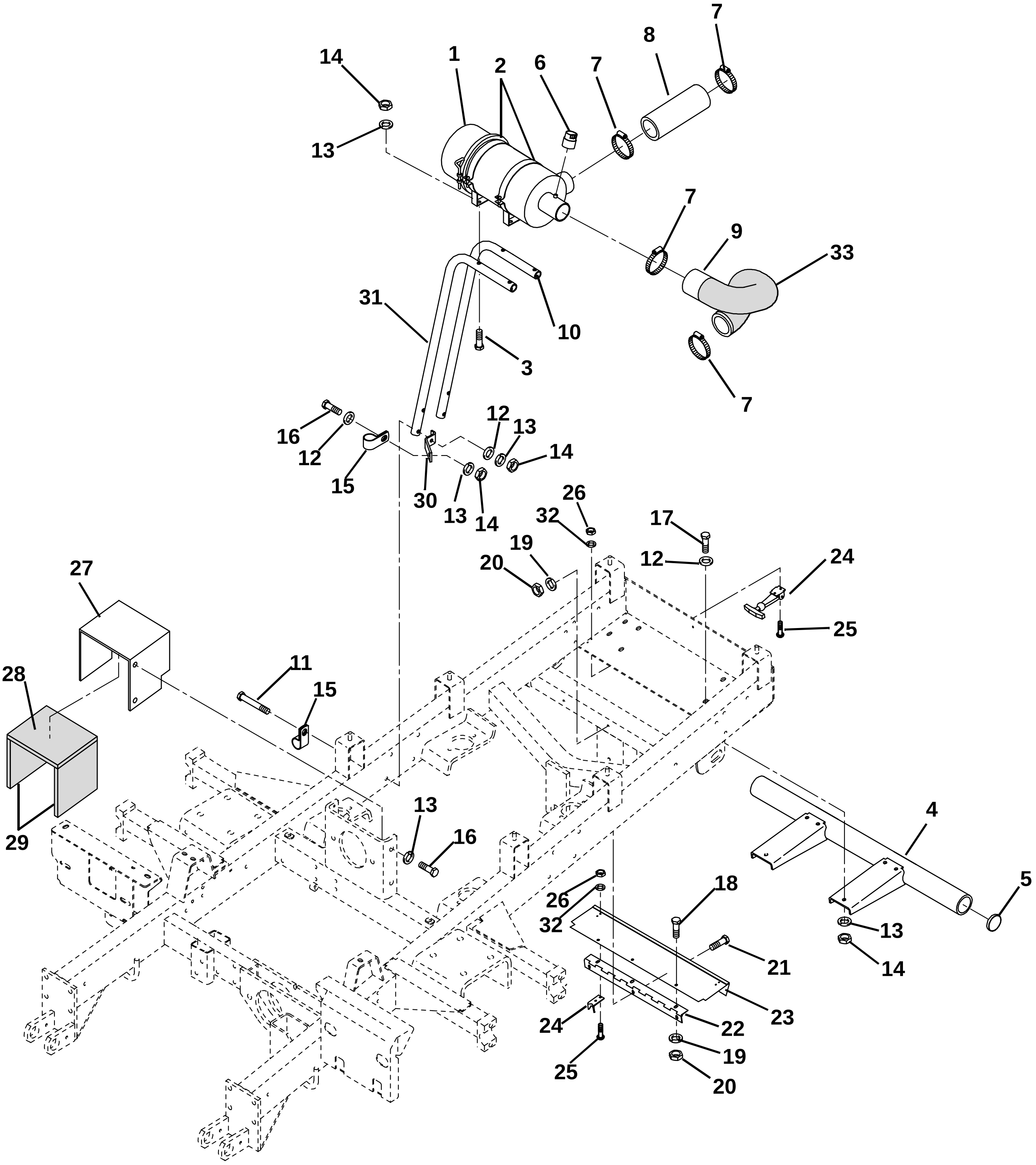


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 2720313 | 1 | Steering Axle | |
| 2 | 2720298 | 2 | • Bushing, Axle Pivot | |
| 3 | 2720314 | 4 | • Bushing, Mount Pivot | |
| 4 | 400444 | 1 | Screw, 1/2-20 x 1-3/4” Hex Head | |
| 5 | 400446 | 1 | Screw, 1/2-20 x 2” Hex Head | |
| 6 | 443820 | 2 | Nut, 1/2-20 Hex Jam | |
| 7 | 471221 | 3 | Grease Fitting, 90° | |
| 8 | 361648 | 6 | Washer, Thrust | |
| 9 | 361647 | 2 | Thrust Bearing | |
| 10 | 367350 | 2 | Washer, Thrust | |
| 11 | 461393 | 2 | Roll Pin, 1/4 x 2” | |
| 12 | 2721009 | 1 | Right Side Steering Arm | |
| 13 | 2721008 | 1 | Left Side Steering Arm | |
| 14 | 2000057 | 2 | Motor Mount | |
| 15 | 401226 | 6 | Screw, 1/2-13 x 1” Hex Grade 8 | |
| 16 | 446154 | 14 | Lockwasher, 1/2 Heavy | |
| 17 | 1001298 | 1 | Tie Rod | |
| 18 | 3000406 | 1 | • Tie Rod End, Right Side | |
| 19 | 3002714 | 1 | • Tie Rod End, Left Side | |
| 20 | 322847 | 2 | • Clamp | |
| 21 | 445666 | 2 | • Nut, 1/2-20 Slotted Hex | |
| 22 | 400228 | 2 | • Screw, 5/16-24 x 1-1/4” Hex Head | |
| 23 | 446136 | 2 | • Lockwasher, 5/16 Heavy | |
| 24 | 443108 | 2 | • Nut, 5/16-24 Hex | |
| 25 | 5003218 | 2 | Rear Wheel Motor | See 61.1 |
| 26 | 554780 | 1 | • Key | |
| 27 | 554779 | 1 | • Nut | |
| 28 | 339092 | 2 | Guard, Wheel Motor Hose | |
| 29 | 400410 | 8 | Screw, 1/2-13 x 1-3/4” Hex Head | |
| 30 | 315298 | 10 | Bolt, Wheel | |
| 31 | 2720841 | 2 | Hub, Wheel | |
| 32 | 361451 | 2 | Washer | |
| 33 | 460032 | 2 | Cotter Pin, 1/8 x 1-1/2” | |
| 34 | 122466 | 1 | Steering Cylinder | |
| | 503095 | 2 | • Ball Joint | |
| | 503096 | 1 | • Seal Kit, Gold Star | Cylinders with Snap Ring Gland |
| | 5003658 | 1 | • Seal Kit, HDM | Cylinders with Threaded Gland |
| 35 | 445704 | 2 | Nut, 5/8-18 Slotted Hex | |
| 36 | 460028 | 4 | Cotter Pin, 1/8 x 1” | |
| 37 | 360111 | 2 | Valve, Inflation | |
| 38 | 366310 | 2 | Tire, 23 x 10.5-12 4 Ply | |
| 39 | 5002894 | 2 | Rim, 12 x 8.5 | |

> Change from previous revision

## 19.1 Air Cleaner

Serial No. 69158 All

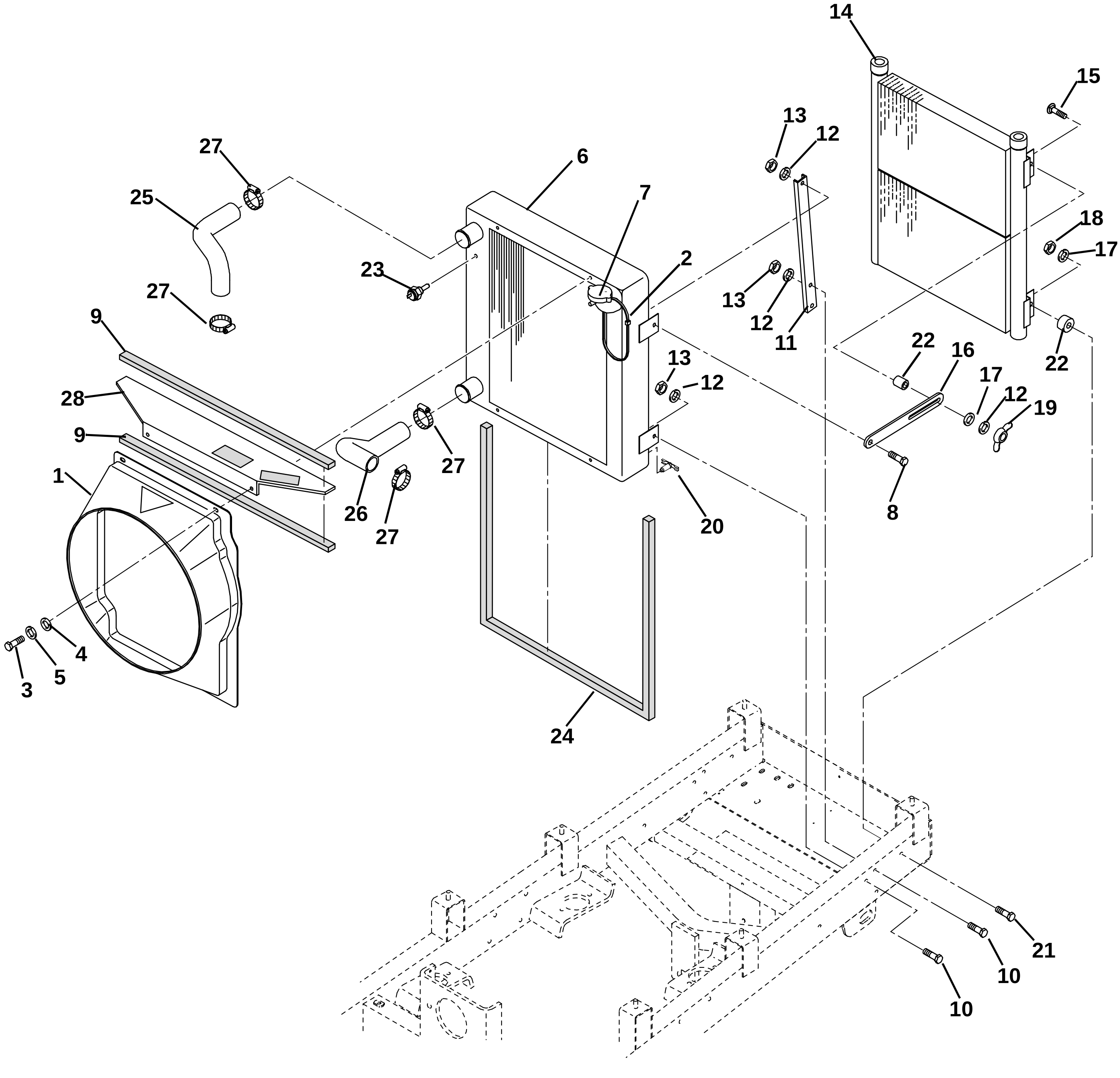


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 122907 | 1 | Air Filter Assembly | |
| | 503628 | 1 | • Wing Nut and Gasket Kit | |
| | 549633 | 1 | • Element, Air Cleaner | |
| 2 | 131059 | 2 | Band, Air CLeaner Mounting | |
| 3 | 400266 | 4 | Screw, 3/8-16 x 1-1/2” Hex Head | |
| 4 | 503574 | 1 | Rear Bumper | Includes Decals |
| 5 | 366403 | 2 | Plug, Tube | |
| 6 | 364883 | 1 | Switch, Air Cleaner Service | **REFERENCE SW11, See 67.1** |
| 7 | 359615 | 4 | Clamp, Hose | |
| 8 | 3008512 | 1 | Hose, Air Intake | |
| 9 | 390961 | 1 | Hose, Air Cleaner to Engine | |
| 10 | 338940 | 1 | Support, Rear Air Cleaner | |
| 11 | 401030 | 4 | Screw, 3/8-16 x 3-3/4” Hex Head | |
| 12 | 453011 | 15 | Flat Washer, 3/8 | |
| 13 | 446142 | 17 | Lockwasher, 3/8 Heavy | |
| 14 | 443110 | 15 | Nut, 3/8-16 Hex | |
| 15 | 364190 | 2 | Clamp | |
| 16 | 400258 | 4 | Screw, 3/8-16 x 3/4” Hex Head | |
| 17 | 400262 | 6 | Screw, 3/8-16 x 1” Hex Head | |
| 18 | 404014 | 3 | Screw, 1/4-20 x 1/2” Truss Head | |
| 19 | 446130 | 6 | Lockwasher, 1/4 Heavy | |
| 20 | 443102 | 6 | Nut, 1/4-20 Hex | |
| 21 | 400124 | 3 | Screw, 1/4-20 x 2-1/2” Hex Head | |
| 22 | 3004588 | 1 | Hinge, Drain Panel | |
| 23 | 3004563 | 1 | Drain Panel | |
| 24 | 161688 | 2 | Latch | |
| 25 | 402006 | 6 | Screw, #6-32 x 1/2” Slotted | |
| 26 | 444304 | 6 | Nut, #6-32 Hex | |
| 27 | 366352 | 1 | Cover, Drive Shaft | |
| 28 | 366368 | 1 | Foam, Top | |
| 29 | 366369 | 2 | Foam, Side | |
| 30 | 366342 | 1 | Bracket, Clamp Mounting | |
| 31 | 338939 | 1 | Support, Front Air Cleaner Support | |
| 32 | 446106 | 6 | Lockwasher, #6 | |
| 33 | 2208292 | 1 | Cover, Spiraco Hose | |

> Change from previous revision

## 20.1 Radiator and Oil Cooler

Serial No. 69158 All

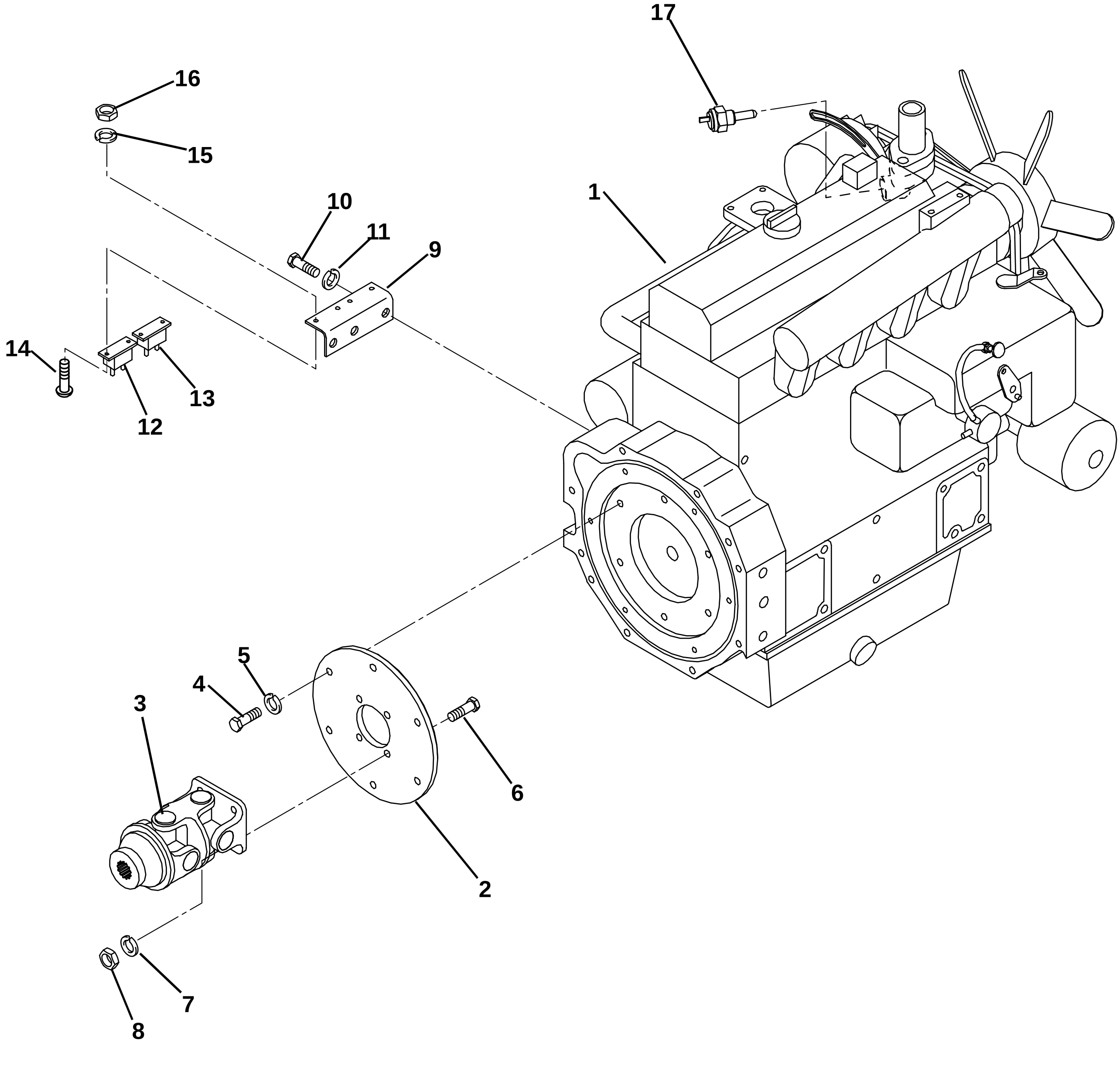


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 503608 | 1 | Radiator Shroud | Includes Decal |
| 2 | 473144 | 1 | Cable Tie | |
| 3 | 400182 | 4 | Screw, 5/16-18 x 5/8” Hex Head | |
| 4 | 452006 | 4 | Flat Washer, 5/16 | |
| 5 | 446136 | 4 | Lockwasher, 5/16 Heavy | |
| 6 | 503609 | 1 | Radiator | Includes Decals |
| 7 | 555867 | 1 | • Radiator Cap | |
| 8 | 344996 | 2 | Bolt, 3/8-16 Shoulder | |
| 9 | 3004375 | 2 | Strip, Seal | |
| 10 | 400286 | 6 | Screw, 3/8-16 x 2-3/4” Hex Head | |
| 11 | 338978 | 2 | Bracket, Radiator Support | |
| 12 | 446142 | 10 | Lockwasher, 3/8 Heavy | |
| 13 | 443110 | 8 | Nut, 3/8-16 Hex | |
| 14 | 117076 | 1 | Oil Cooler | |
| 15 | 441630 | 2 | Carriage Bolt, 3/8 x 2” | |
| 16 | 338979 | 2 | Plate, Oil Cooler Pivot | |
| 17 | 453011 | 4 | Flat Washer, 3/8 | |
| 18 | 444762 | 2 | Locknut, 3/8-16 Center | |
| 19 | 445636 | 2 | Nut, 3/8-16 Wing | |
| 20 | 162479 | 1 | Draincock | |
| 21 | 400278 | 2 | Screw, 3/8-16 x 3-1/2” Hex Head | |
| 22 | 366600 | 4 | Spacer, Oil Cooler | |
| 23 | 162722 | 1 | Water Temperature Sender | **REFERENCE U10, See 67.1** |
| 24 | 3001809 | 1 | Weather Strip, Radiator | Cut to Fit |
| 25 | 390962 | 1 | Hose, Upper Radiator | |
| 26 | 390963 | 1 | Hose, Lower Radiator | |
| 27 | 326112 | 4 | Hose Clamp | |
| 28 | 5002443 | 1 | Base, Seal | Includes Decals |

> Change from previous revision

## 21.1 Engine



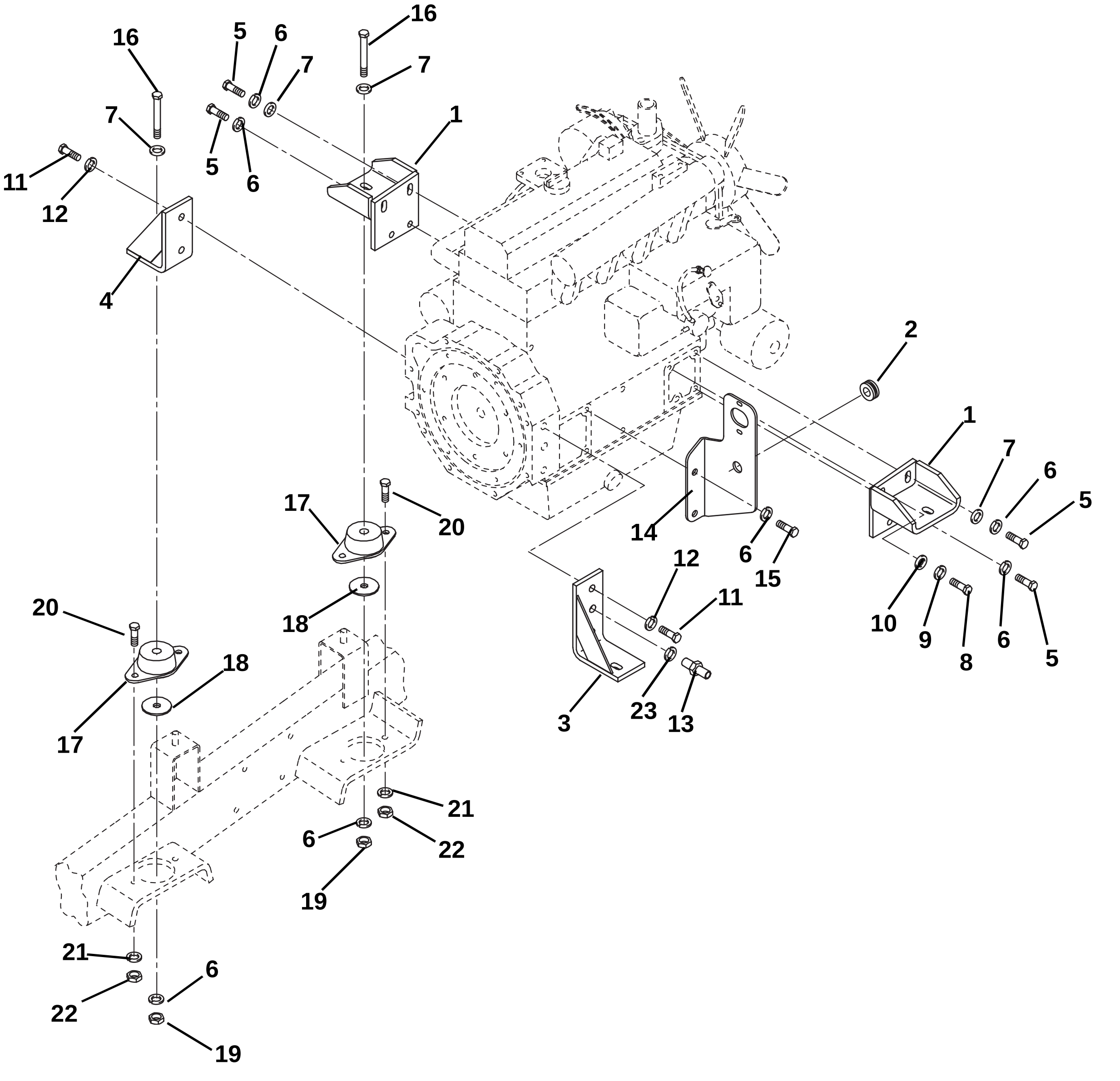


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 1000441 | 1 | Engine, Kubota V2203 | For complete listing of engine service parts, See Engine Parts Manual |
| | 555773 | 1 | • Engine Oil Filter | |
| | 557619 | 1 | • Cartridge, Fuel Filter | |
| | 2811870 | 1 | • Upper Gasket Kit | |
| | 5000938 | 1 | • Alternator | **REFERENCE U1, See 67.1** |
| | 556988 | 1 | • Starter | **REFERENCE M1, See 67.1** |
| | 554018 | 1 | • Engine Oil Pressure Switch | **REFERENCE SW17, See 67.1** |
| | 556996 | 4 | • Glow Plug | **REFERENCE R1, See 67.1** |
| 2 | 338991 | 1 | Pump Drive Flange | |
| 3 | 163916 | 1 | U-Joint | |
| | 545984 | 1 | • Yoke, Engine Side Flange | |
| | 365359 | 1 | • Yoke, Center | |
| | 365977 | 1 | • Yoke, Pump Side | |
| | 500562 | 2 | • Cross Kit | |
| 4 | 362263 | 6 | Screw, M10-1.25 x 25 mm | Metric Grade 8.8 |
| 5 | 363485 | 6 | Lockwasher, M10 | |
| 6 | 400264 | 4 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 7 | 446142 | 4 | Lockwasher, 3/8 Heavy | |
| 8 | 443110 | 4 | Nut, 3/8-16 Hex | |
| 9 | 366108 | 1 | Bracket, Circuit Breaker Mounting | |
| 10 | 365980 | 2 | Screw, M12-1.25 x 20 mm | Metric Grade 8.8 |
| 11 | 446154 | 2 | Lockwasher, 1/2 Heavy | |
| 12 | 361439 | 1 | Circuit Breaker, 50 Amp Main | **REFERENCE CB6, See 67.1** |
| 13 | 361439 | 1 | Circuit Breaker, 50 Amp Alternator | **REFERENCE CB7, See 67.1** |
| 14 | 402120 | 4 | Screw, #10-24 x 5/8” Slotted | |
| 15 | 446118 | 4 | Lockwasher, #10 Medium | |
| 16 | 444310 | 4 | Nut, #10-24 Hex | |
| 17 | 3001855 | 1 | Switch, Temperature | **REFERENCE SW16, See 67.1** |

> Change from previous revision

## 22.1 Engine Mounts

Serial No. 69158 All

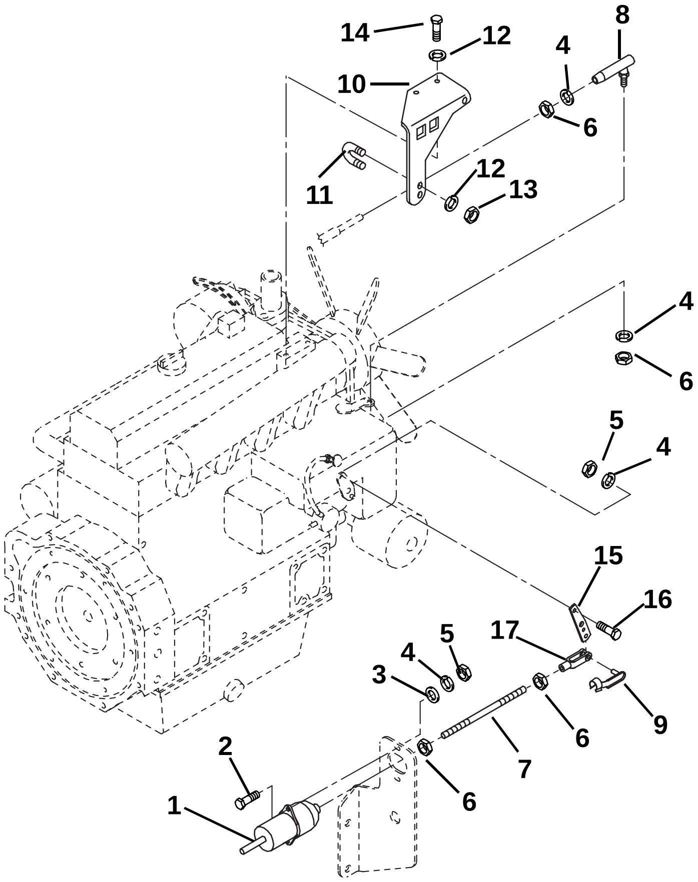


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 4114380 | 2 | Mount, Rear Engine | |
| 2 | 303567 | 1 | Grommet, Fuel Line | |
| 3 | 132426 | 1 | Mount, Left Front Engine | |
| 4 | 132425 | 1 | Mount, Right Front Engine | |
| 5 | 365979 | 7 | Screw, M12-1.25 x 25 mm | Metric Grade 8.8 |
| 6 | 446154 | 13 | Lockwasher, 1/2 Heavy | |
| 7 | 453017 | 7 | Flat Washer, 1/2 | |
| 8 | 362263 | 1 | Screw, M10-1.25 x 25 mm | Metric Grade 8.8 |
| 9 | 363485 | 1 | Lockwasher, M10 | |
| 10 | 453013 | 1 | Flat Washer, 7/16 | |
| 11 | 365981 | 4 | Screw, M14-1.5 x 25 mm | Metric Grade 8.8 |
| 12 | 446160 | 4 | Lockwasher, 9/16 Heavy | |
| 13 | 163373 | 1 | Sensor, Engine Speed | **REFERENCE U9, See 67.1** |
| 14 | 4111740 | 1 | Bracket, Fuel Solenoid | |
| 15 | 365980 | 2 | M10-1.25 x 20 mm | Metric Grade 8.8 |
| 16 | 400428 | 4 | Screw, 1/2-13 x 2-3/4” Hex Head | |
| 17 | 365965 | 4 | Isolator, Engine | |
| 18 | 311879 | 4 | Washer, Isolator | |
| 19 | 443118 | 4 | Nut, 1/2-13 Hex | |
| 20 | 400262 | 8 | Screw, 3/8-16 x 1” Hex Head | |
| 21 | 446142 | 8 | Lockwasher, 3/8 Heavy | |
| 22 | 443110 | 8 | Nut, 3/8-16 Hex | |
| 23 | 447224 | 1 | Lockwasher, 5/8 Internal Tooth | |

> Change from previous revision

## 23.1 Engine Fuel Control

Serial No. 69158 All

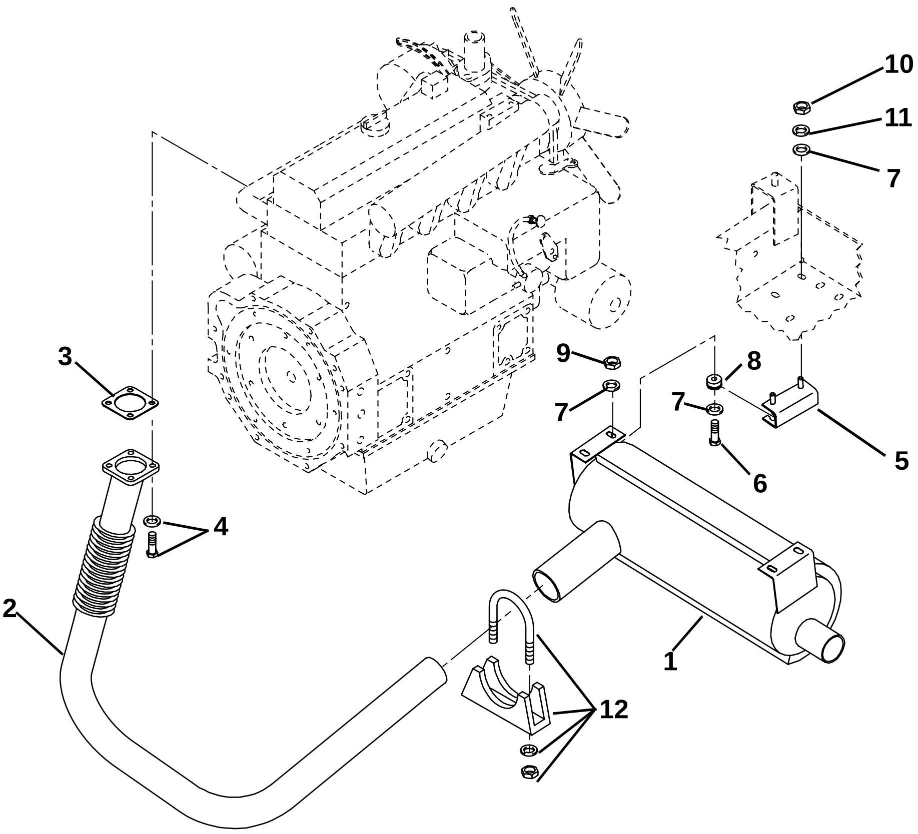



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 338289 | 1 | Fuel Solenoid | **REFERENCE K17, See 67.1** |
| 2 | 400108 | 2 | Screw, 1/4-20 x 3/4” Hex Head | |
| 3 | 453023 | 2 | Flat Washer, 1/4 | |
| 4 | 446130 | 5 | Lockwasher, 1/4 Heavy | |
| 5 | 443102 | 3 | Nut, 1/4-20 Hex | |
| 6 | 443104 | 4 | Nut, 1/4-28 Hex | |
| 7 | 367191 | 1 | Rod, Solenoid Adjusting | |
| 8 | 162478 | 1 | Ball Joint | |
| 9 | 4114474 | 1 | Pin, Clevis Spring | |
| 10 | 3005731 | 1 | Bracket, Throttle Cable | |
| 11 | 362744 | 1 | U-Bolt, 5/16-18 | |
| 12 | 446136 | 4 | Lockwasher, 5/16 Heavy | |
| 13 | 443106 | 2 | Nut, 5/16-18 Hex | |
| 14 | 363586 | 2 | Screw, M8-1.25 x 20 mm | |
| 15 | 366071 | 1 | Bracket, Fuel Solenoid | |
| 16 | 400106 | 1 | Screw, 1/4-20 x 5/8” Hex Head | |
| 17 | 4114473 | 1 | Clevis, Solenoid | |

> Change from previous revision

# 24.1 Muffler



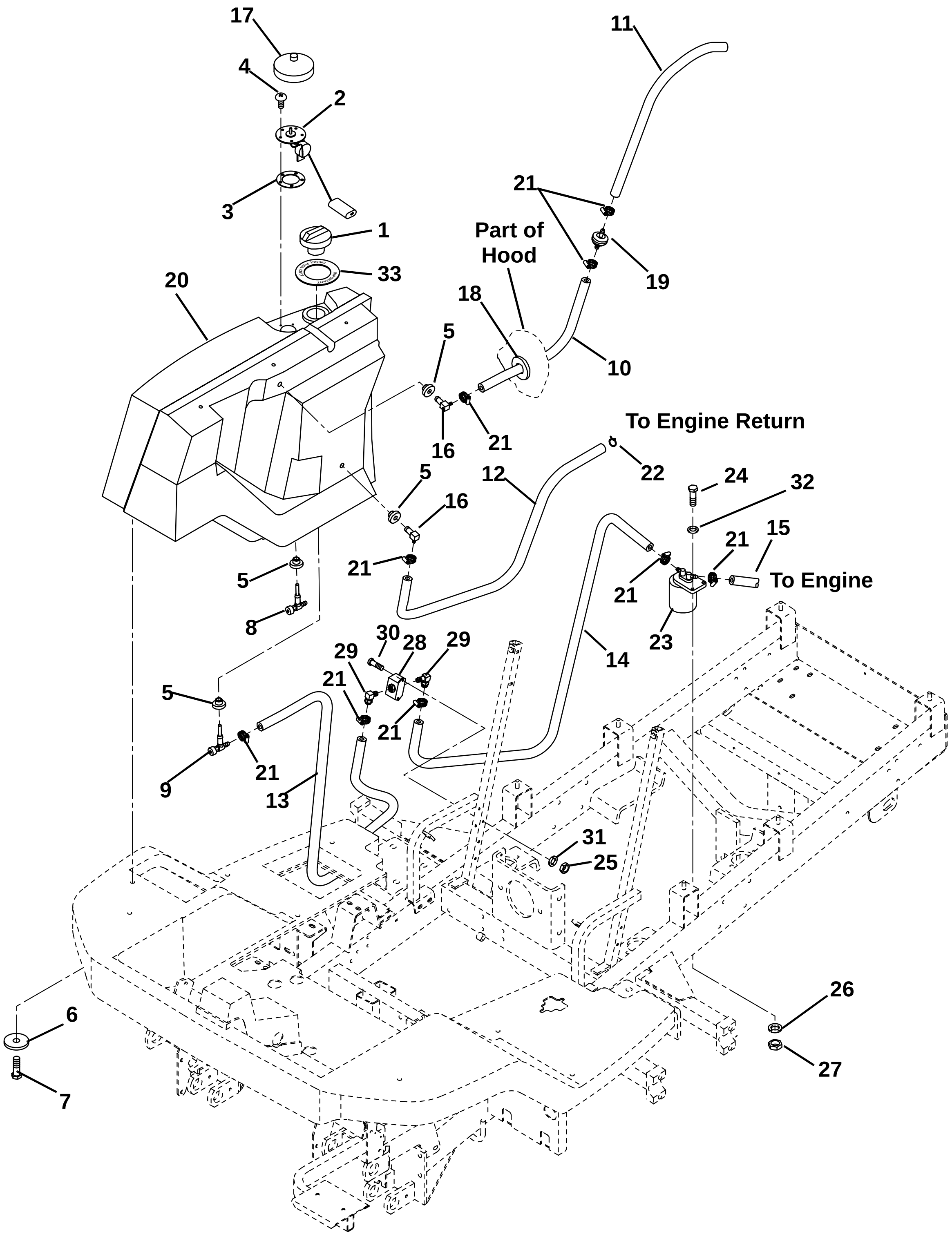



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 1001226 | 1 | Muffler | |
| 2 | 1001251 | 1 | Exhaust Pipe | |
| 3 | 553020 | 1 | Gasket, Exhaust | Included with Engine |
| 4 | 555606 | 4 | Bolt and Lockwasher Set | Included with Engine |
| 5 | 1000050 | 1 | Muffler Bracket | |
| 6 | 400188 | 4 | Screw, 5/16-18 x 1” Hex Head | |
| 7 | 452006 | 12 | Flat Washer, 5/16 | |
| 8 | 3000098 | 4 | Mount, Isolation | |
| 9 | 444718 | 4 | Locknut, 5/16-18 Center | |
| 10 | 443106 | 4 | Nut, 5/16-18 Hex | |
| 11 | 446136 | 4 | Lockwasher, 5/16 Heavy | |
| 12 | 162236 | 1 | Clamp, 2-1/8” Muffler | |

> Change from previous revision

## 25.1 Fuel Tank

Serial No. 69158 All

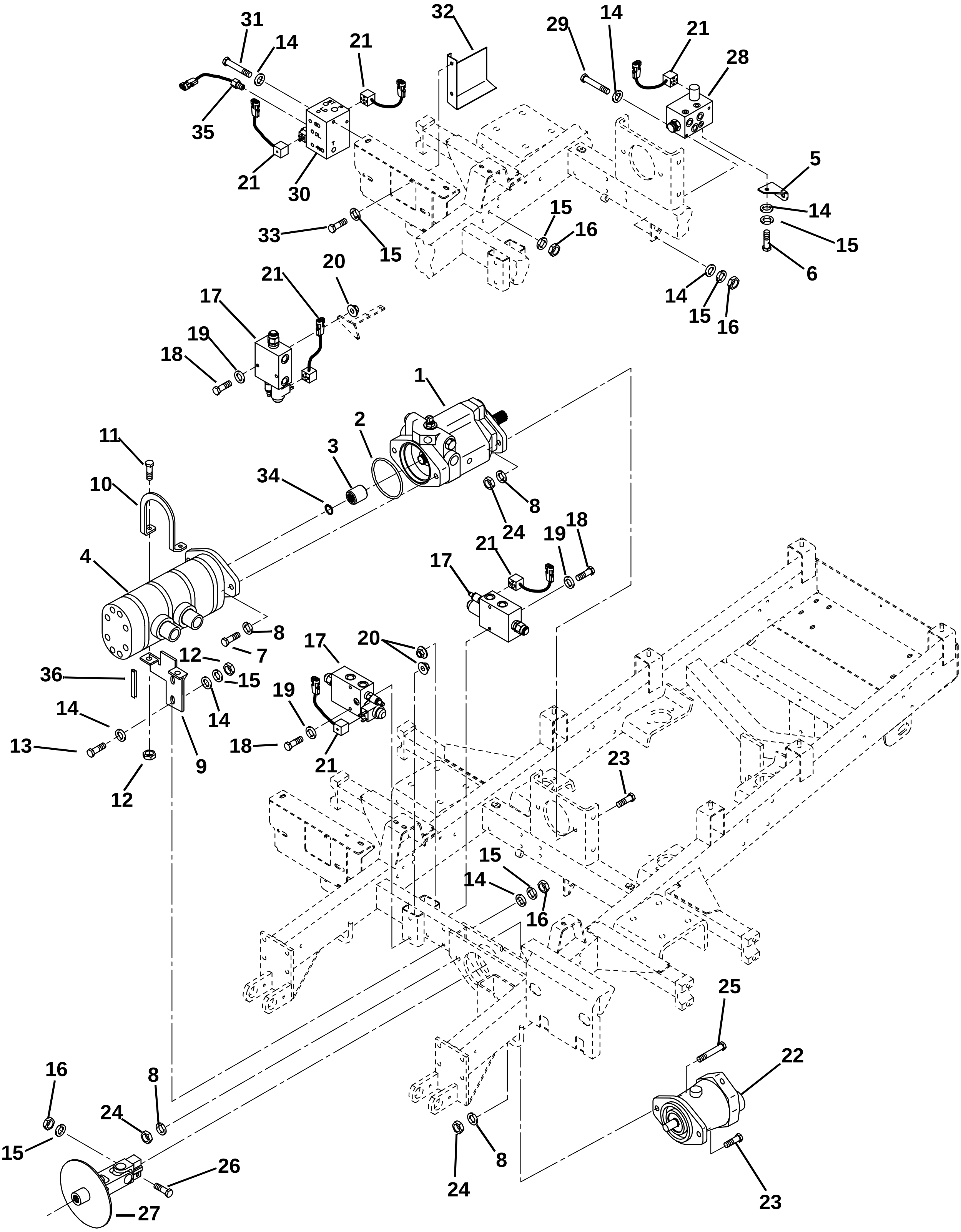


| | Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|---|
| | 1 | 163987 | 1 | Fuel Cap | |
| | 2 | 163986 | 1 | Fuel Sender | **REFERENCE U8, See 67.1** |
| | 3 | N/S | 1 | • Gasket | |
| | 4 | 403910 | 5 | Screw, #10-24 x 1/2” Truss Head | |
| | 5 | 361117 | 4 | Bushing, Fuel | |
| | 6 | 366606 | 2 | Washer, Fuel Tank | |
| | 7 | 400188 | 2 | Screw, 5/16-18 x 1” Hex Head | |
| | 8 | 132647 | 1 | Valve, Drain | |
| | 9 | 1001311 | 1 | Valve, Shut Off | |
| | 10 | 554752 | 1 | Hose, 3/16” Fuel (Cut to 37”) | Tank to Breather Filter |
| | 11 | 554752 | 1 | Hose, 3/16” Fuel (Cut to 12”) | Breather Filter to Clamp |
| | 12 | 554752 | 1 | Hose, 3/16” Fuel (Cut to 44”) | Engine Return to Tank |
| | 13 | 554748 | 1 | Hose, 5/16” Fuel (Cut to 22”) | Tank To Fuel Pump |
| | 14 | 554748 | 1 | Hose, 5/16” Fuel (Cut to 25”) | Fuel Pump to Fuel Filter |
| | 15 | 554748 | 1 | Hose, 5/16” Fuel (Cut to 17”) | Fuel Filter to Engine |
| | 16 | 361748 | 2 | Valve, Overflow | |
| | 17 | 340481 | 1 | Cover, Sender | |
| | 18 | 352604 | 1 | Grommet | |
| | 19 | 341837 | 1 | Filter, Fuel Breather | |
| | 20 | 3005215 | 1 | Fuel Tank | |
| | 21 | 366526 | 10 | Clamp, Hose | |
| | 22 | 472801 | 1 | Clamp, Hose | |
| | 23 | 503626 | 1 | Fuel Filter | Included with Engine |
| | | 557619 | 1 | • Cartridge, Fuel Filter | |
| | 24 | 400264 | 2 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| | 25 | 443102 | 2 | Nut, 1/4-20 Hex | |
| | 26 | 446142 | 2 | Lockwasher, 3/8 Heavy | |
| | 27 | 443110 | 2 | Nut, 3/8-16 Hex | |
| | 28 | 163574 | 1 | Fuel Pump | **REFERENCE U11, See 67.1** |
| | 29 | 365976 | 2 | Elbow, 90° | |
| | 30 | 400118 | 2 | Screw, 1/4-20 x 1-3/4” Hex Head | |
| | 31 | 446130 | 2 | Lockwasher, 1/4 Heavy | |
| | 32 | 453011 | 2 | Flat Washer | |
| > | 33 | 4107320 | 1 | Tag, Diesel Fuel | |

> Change from previous revision

## 26.1 Pumps and Control Valve

Serial No. 69158 All

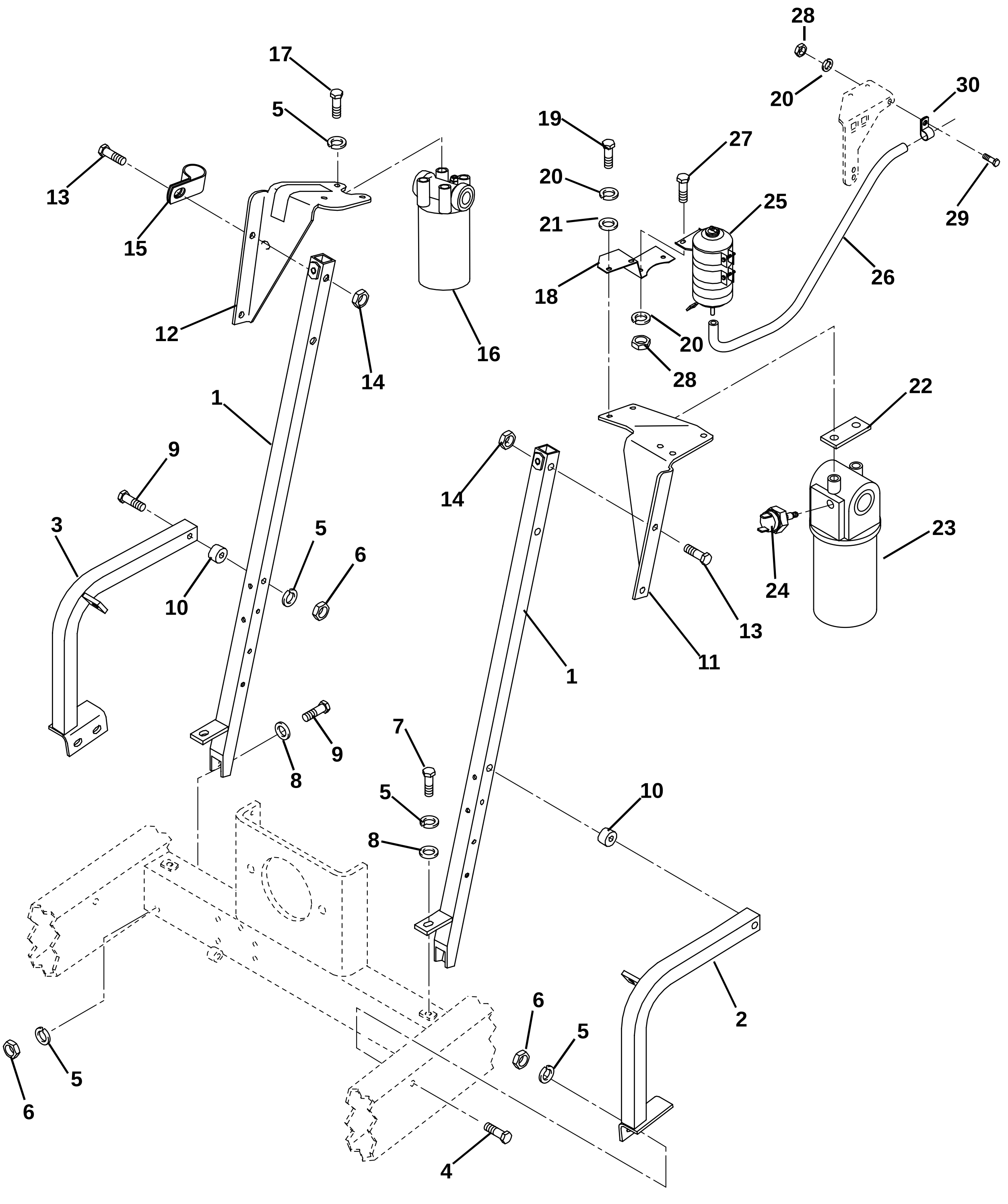


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 117083 | 1 | Pump, Traction | **See 58.1** |
| 2 | 557447 | 1 | • O-RIng | |
| 3 | 338938 | 1 | • Pump Coupler | |
| 4 | 2720560 | 1 | Pump, 4 Section Gear | |
| | 2721419 | 1 | • Seal Kit | |
| 5 | 3001523 | 1 | Plate, Bulkhead | |
| 6 | 400260 | 1 | Screw, 3/8-16 x 7/8” Hex Head | |
| 7 | 400412 | 2 | Screw, 1/2-13 x 2” Hex Head | |
| 8 | 446154 | 6 | Lockwasher, 1/2 Heavy | |
| 9 | 2721522 | 1 | Support, Gear Pump | |
| 10 | 2721523 | 1 | Strap, Gear Pump | |
| 11 | 400262 | 2 | Screw, 3/8-16 x 1” Hex Head | |
| 12 | 444762 | 2 | Locknut, 3/8-16 Center | |
| 13 | 400274 | 2 | Screw, 3/8-16 x 2-1/2” Hex Head | |
| 14 | 453011 | 10 | Flat Washer, 3/8 | |
| 15 | 446142 | 10 | Lockwasher, 3/8 Heavy | |
| 16 | 443110 | 8 | Nut, 3/8-16 Hex | |
| 17 | 1002499 | 3 | Valve, Deck Control | **See 56.1** |
| 18 | 400278 | 6 | Screw, 3/8-16 x 3-1/2” Hex Head | |
| 19 | 452008 | 6 | Flat Washer, 3/8 | |
| 20 | 445783 | 6 | Nut, 3/8-16 Whizlock Flange | |
| 21 | 3009728 | 6 | Adapter, Wire Harness | |
| 22 | 117075 | 1 | Motor, Front Axle Drive | **See 60.1** |
| 23 | 400410 | 3 | Screw, 1/2-13 x 1-3/4” Hex Head | |
| 24 | 443118 | 4 | Nut, 1/2-13 Hex | |
| 25 | 400420 | 1 | Screw, 1/2-13 x 3-1/2” Hex Head | |
| 26 | 400268 | 1 | Screw, 3/8-16 x 1-3/4” Hex Head | |
| 27 | 122902 | 1 | U-Joint, Front Axle | |
| | 471214 | 1 | • Grease Fitting, Straight | |
| | 555839 | 1 | • Axle End Yoke with Brake Disk | |
| | 555840 | 1 | • Center Yoke | |
| | 555841 | 1 | • Motor End Yoke | |
| | 554663 | 2 | • Cross and Bearing Kit | |
| 28 | 1003025 | 1 | Valve, 4WD Control | See 53.1 |
| 29 | 400476 | 2 | Screw, 3/8-16 x 6” Hex Head | |
| 30 | 1004555 | 1 | Valve, Main Control | See 52.1 |
| 31 | 401225 | 2 | Screw, 3/8-16 x 6-1/2” Hex Head | |
| 32 | 1002475 | 1 | Shield, Valve Guard | |
| 33 | 400258 | 2 | Screw, 3/8-16 x 3/4” Hex Head | |
| 34 | 458103 | 1 | Snap Ring | |
| 35 | 132380 | 1 | Switch, Charge Pressure | **REFERENCE SW15, See 67.1** |
| 36 | 557629 | AR | Trim | 10 Foot Roll, Cut to Length |

> Change from previous revision

## 27.1 Tank Support

Serial No. 69158 All

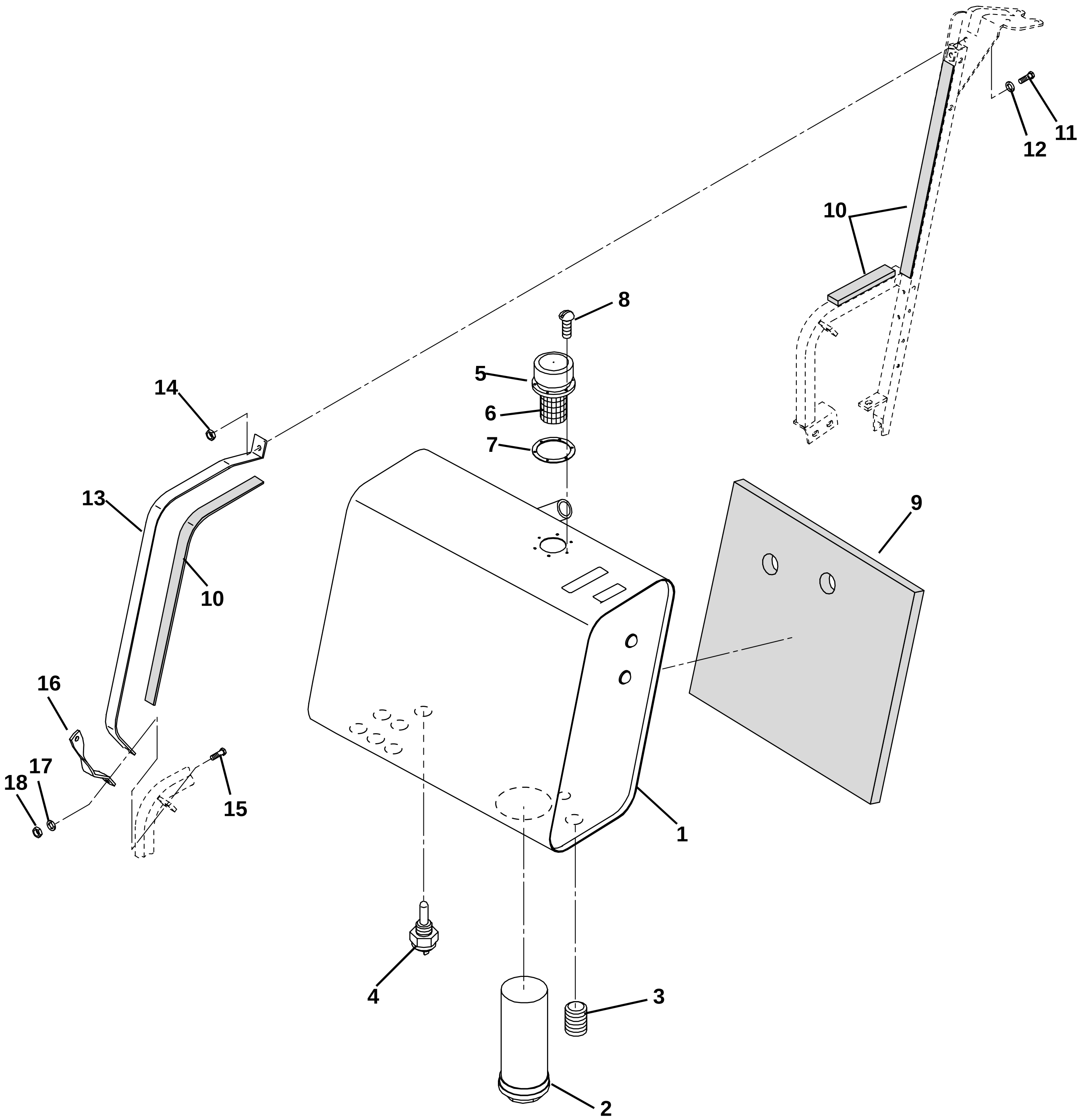


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 132433 | 2 | Support, Rear Tank | |
| 2 | 132432 | 1 | Support, Left Side Tank | |
| 3 | 132431 | 1 | Support, Right Side Tank | |
| 4 | 400286 | 2 | Screw, 3/8-16 x 2-3/4” | |
| 5 | 446142 | 12 | Lockwasher, 3/8 Heavy | |
| 6 | 443110 | 6 | Nut, 3/8-16 Hex | |
| 7 | 400262 | 2 | Screw, 3/8-16 x 1” Hex Head | |
| 8 | 453011 | 4 | Flat Washer, 3/8 | |
| 9 | 400278 | 4 | Screw, 3/8-16 x 3-1/2” Hex Head | |
| 10 | 350685 | 2 | Spacer, Tank Support | |
| 11 | 3001740 | 1 | Bracket, Return Filter | |
| 12 | 503613 | 1 | Bracket, Charge Filter | Includes Decal |
| 13 | 400268 | 4 | Screw, 3/8-16 x 1-3/4” Hex Head | |
| 14 | 444762 | 4 | Locknut, 3/8-16 Center | |
| 15 | 366424 | 1 | Clamp, Fuel Tank Breather Hose | |
| 16 | 123015 | 1 | Charge Filter | |
| | 2811255 | 1 | • Filter Element | |
| | 556417 | 1 | • Head, Filter | |
| | 556419 | 1 | • Switch, Charge Filter Service | **REFERENCE SW14, See 67.1** |
| 17 | 400258 | 4 | Screw, 3/8-16 x 3/4” Hex Head | |
| 18 | 3008126 | 1 | Bracket, Recovery Bottle | |
| 19 | 400192 | 2 | Screw, 5/16-18 x 1-1/2” Hex Head | |
| 20 | 446136 | 5 | Lockwasher, 5/16 Heavy | |
| 21 | 452006 | 2 | Flat Washer, 5/16 | |
| 22 | 3007980 | 1 | Bar, Spacer | |
| 23 | 132381 | 1 | Return Filter | |
| | 555771 | 1 | • Filter | |
| 24 | 365974 | 1 | Switch, Return Filter Service | **REFERENCE SW12, See 67.1** |
| 25 | 5002444 | 1 | Recovery Bottle | |
| 26 | N/S | 1 | • Hose, Radiator to Overflow | |
| 27 | 400184 | 2 | Screw, 5/16-18 x 3/4” Hex Head | |
| 28 | 443106 | 3 | Nut, 5/16-18 Hex | |
| 29 | 400188 | 1 | Screw, 5/16-18 x 1” Hex Head | |
| 30 | 345666 | 1 | Clamp, Overflow Hose | |

> Change from previous revision

## 28.1 Hydraulic Tank

Serial No. 69158 All



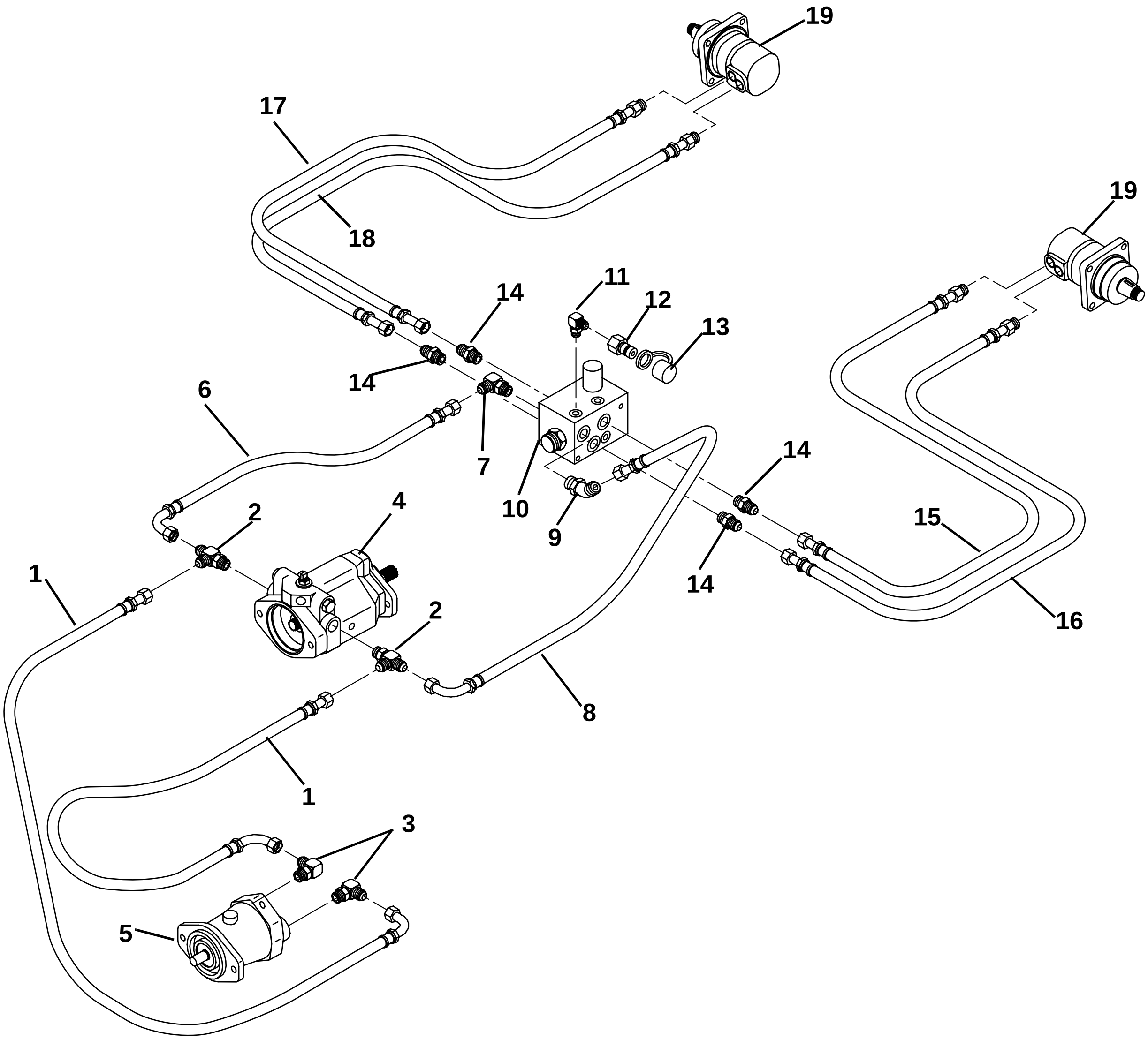
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 503612 | 1 | Hydraulic Oil Tank | Includes Decals |
| 2 | 365959 | 1 | Strainer, 100 Mesh Screen | |
| | 2812075 | 1 | • O-RIng | |
| 3 | 69051-04 | 1 | Plug, Pipe | |
| 4 | 367551 | 1 | Switch, Hydraulic Oil Temperature | **REFERENCE SW13, See 67.1** |
| ★ 5 | 163915 | 1 | Breather, Tank | ***Important note located below*** |
| ★ 6 | 557680 | 1 | • Screen | |
| ★ 7 | 557681 | 2 | • Gasket, Rubber | |
| ★ 8 | 402120 | 6 | Screw, #10-24 x 5/8” Slotted | |
| 9 | 338941 | 1 | Foam, Tank | |
| 10 | 558012 | AR | Pad, Tank (Cut to Fit) | 10 Foot Roll |
| 11 | 400268 | 2 | Screw, 3/8-16 x 1-3/4” Hex Head | |
| 12 | 453011 | 2 | Flat WAsher, 3/8 | |
| 13 | 3001409 | 2 | Strap, Oil Tank | |
| 14 | 444762 | 2 | Locknut, 3/8-16 Center | |
| 15 | 400264 | 2 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 16 | 339106 | 1 | Bracket, Seat Belt Mounting | |
| 17 | 446142 | 2 | Lockwasher, 3/8 Heavy | |
| 18 | 443110 | 2 | Nut, 3/8-16 Hex | |

★ **IMPORTANT:** *Discard the six #10-32 x 1/2” self threading screws included with Tank Breather Assembly. Using self threading screws will cause damage to hydraulic tank. Use #10-24 x 5/8” Slotted Head screws* ***(Item 8)*** *to secure breather to tank.*

> Change from previous revision

## 29.1 Traction Hydraulics

Serial No. 69158 All

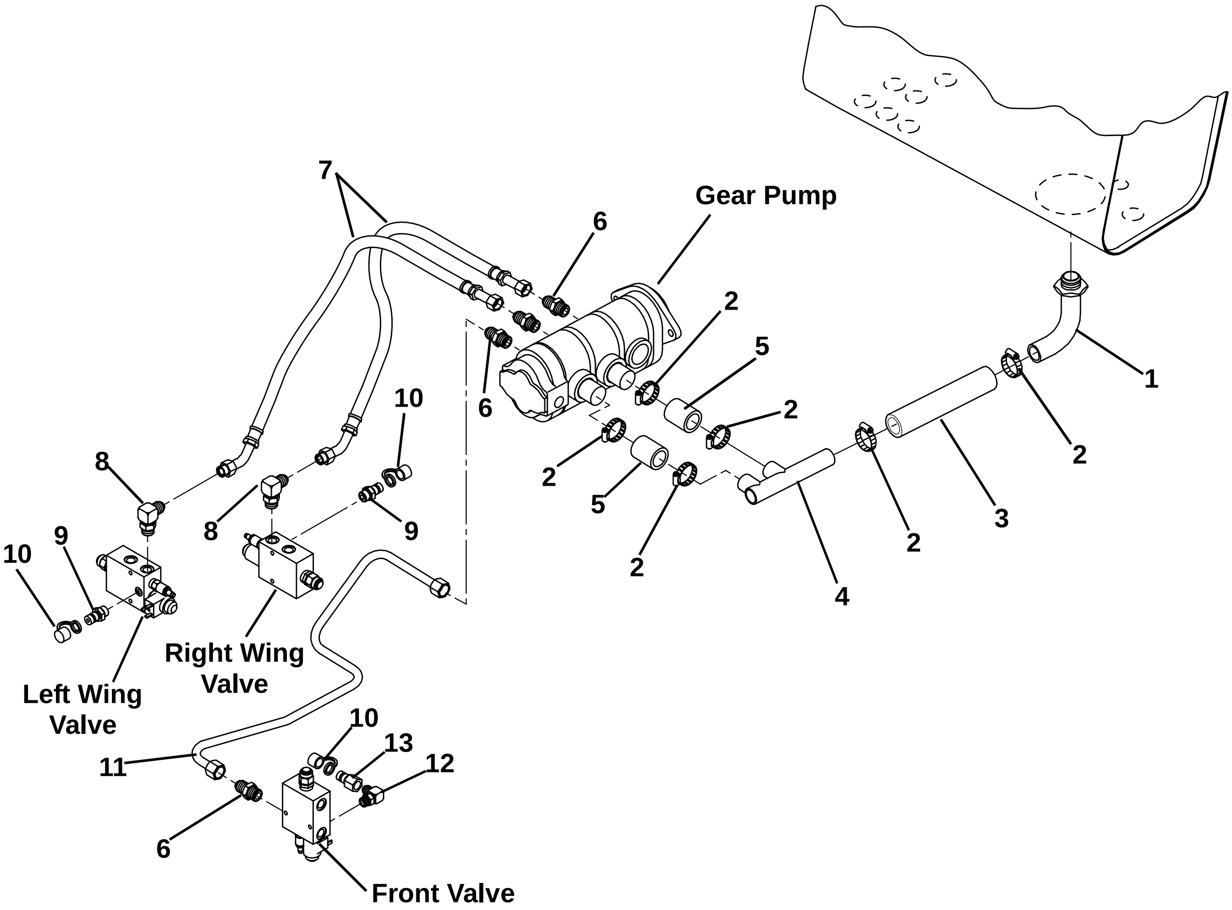


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 132417 | 2 | Hose, Traction Pump to Axle Motor | |
| 2 | 340269 | 2 | Adapter, Tee | |
| 3 | 340074 | 2 | Adapter, 90° | |
| 4 | REF | 1 | Traction Pump | See 26.1 |
| 5 | REF | 1 | Front Axle Motor | See 26.1 |
| 6 | 132446 | 1 | Hose, Pump to 4WD Valve Port B | |
| 7 | 340070 | 1 | Adapter, 90° | |
| 8 | 132484 | 1 | Hose, Pump to 4WD Valve Port A | |
| 9 | 340033 | 1 | Adapter, 45° | |
| 10 | REF | 1 | 4WD Valve | See 26.1 |
| 11 | 340065 | 2 | Adapter, 90° | |
| 12 | 364945 | 2 | Adapter, Diagnostic Port | |
| 13 | 363030 | 2 | Dust Cover | |
| 14 | 339989 | 4 | Adapter, Straight | |
| | 1000843 | 1 | Hose Assembly, Left Wheel Motor | |
| | 1000700 | 1 | • Hose, Motor Drain (Not Shown) | See 35.1 |
| 15 | 132448 | 1 | • Hose, 4WD Valve to Motor | 4WD Valve Port L2, Motor Port A |
| 16 | 132448 | 1 | • Hose, 4WD Valve to Motor | 4WD Valve Port L1, Motor Port B |
| | 1000843 | 1 | Hose Assembly, Right Wheel Motor | |
| | 1000700 | 1 | • Hose, Motor Drain (Not Shown) | See 35.1 |
| 17 | 132448 | 1 | • Hose, 4WD Valve to Motor | 4WD Valve Port R2, Motor Port B |
| 18 | 132448 | 1 | • Hose, 4WD Valve to Motor | 4WD Valve Port R1, Motor Port A |
| 19 | REF | 2 | Rear Wheel Motor | See 18.1 |

> Change from previous revision

## 30.1 Gear Pump Hydraulics

Serial No. 69158 All

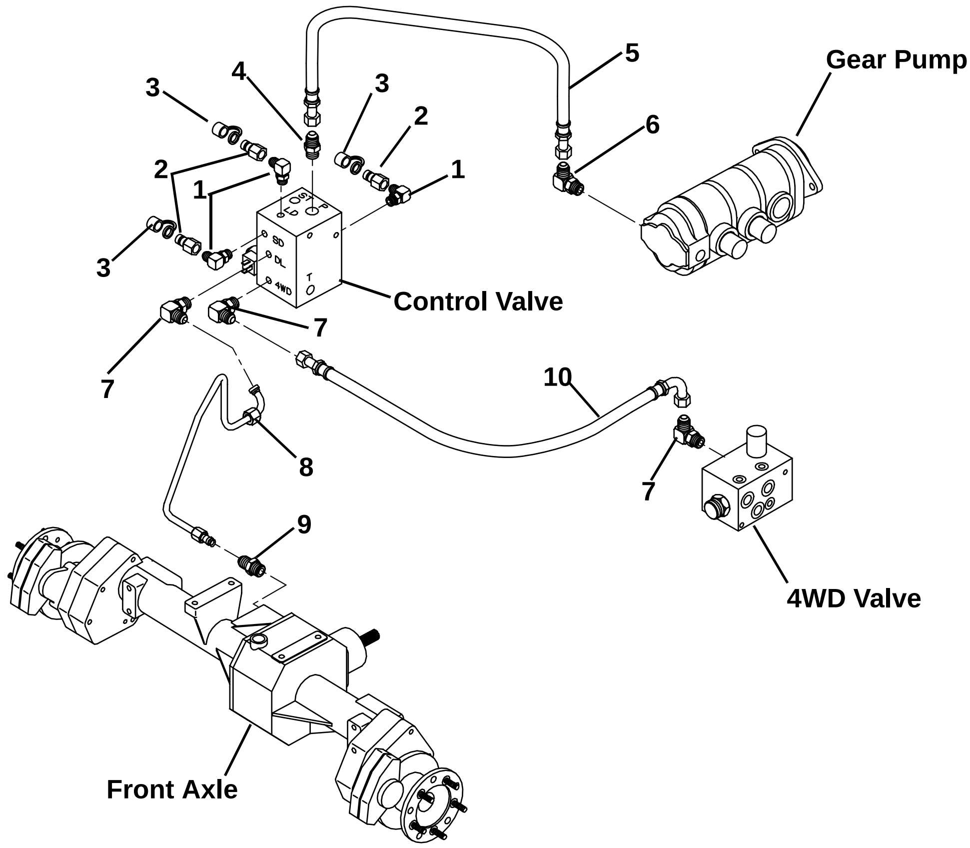



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 338946 | 1 | Adapter, 90° Beaded | |
| | 339903 | 1 | • O-RIng | |
| 2 | 326112 | 6 | Clamp, Hose | |
| 3 | 366083 | 1 | Hose, Pump Suction | |
| 4 | 339113 | 1 | Manifold, Pump Suction | |
| 5 | 2720893 | 2 | Hose, Pump Suction | |
| 6 | 339989 | 4 | Adapter, Straight | |
| 7 | 1003104 | 1 | Hose, Pump to Deck Valve P Port | |
| 8 | 340070 | 2 | Adapter, 90° | |
| 9 | 365466 | 2 | Adapter, Diagnostic Port | |
| 10 | 363030 | 3 | Dust Cover | |
| 11 | 1003012 | 1 | Tube, Front Deck Valve | |
| 12 | 340065 | 1 | Adapter, 90° | |
| 13 | 364945 | 1 | Adapter, Diagnostic Port | |

> Change from previous revision

## 31.1 Control Valve Hydraulics



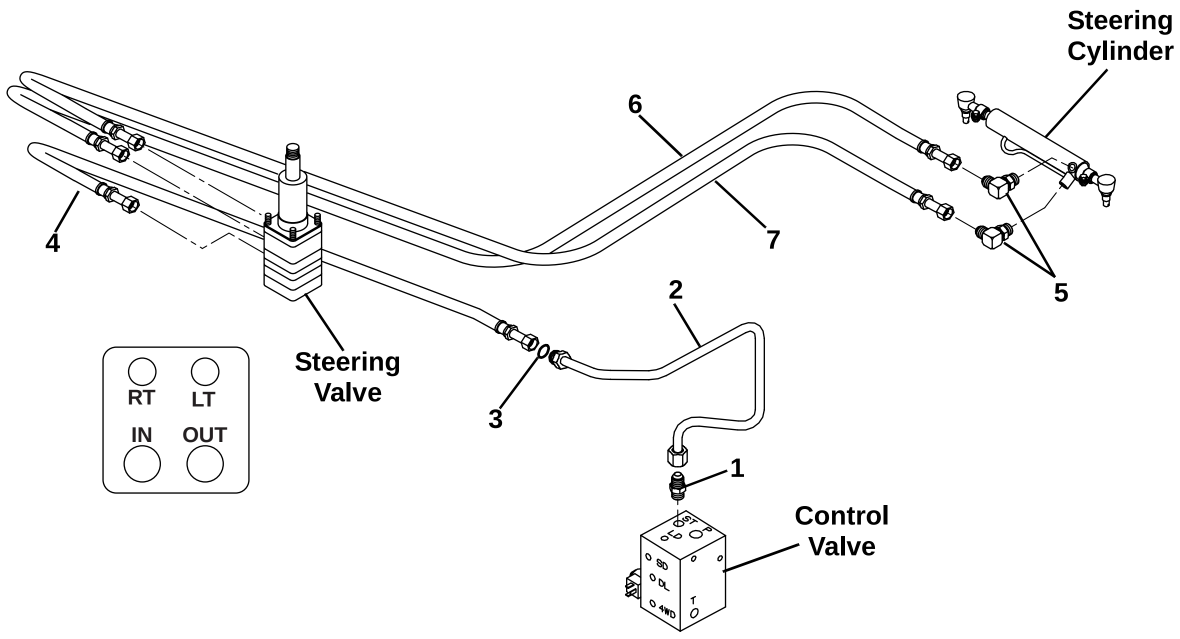



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340065 | 3 | Adapter, 90° | |
| 2 | 364945 | 3 | Adapter, Diagnostic Port | |
| 3 | 363030 | 3 | Dust Cover | |
| 4 | 339989 | 1 | Adapter, Straight | |
| 5 | 1003105 | 1 | Hose, Pump to Control Valve | Control Valve Port P |
| 6 | 340033 | 1 | Adapter, 45° | |
| 7 | 340061 | 3 | Adapter, 90° | |
| 8 | 2500115 | 1 | Tube, Control Valve to Front Axle | |
| 9 | 366418 | 1 | Adapter, Straight | |
| 10 | 132447 | 1 | Hose, Control Valve to 4WD Valve | |

> Change from previous revision

## 32.1 Steering Hydraulics

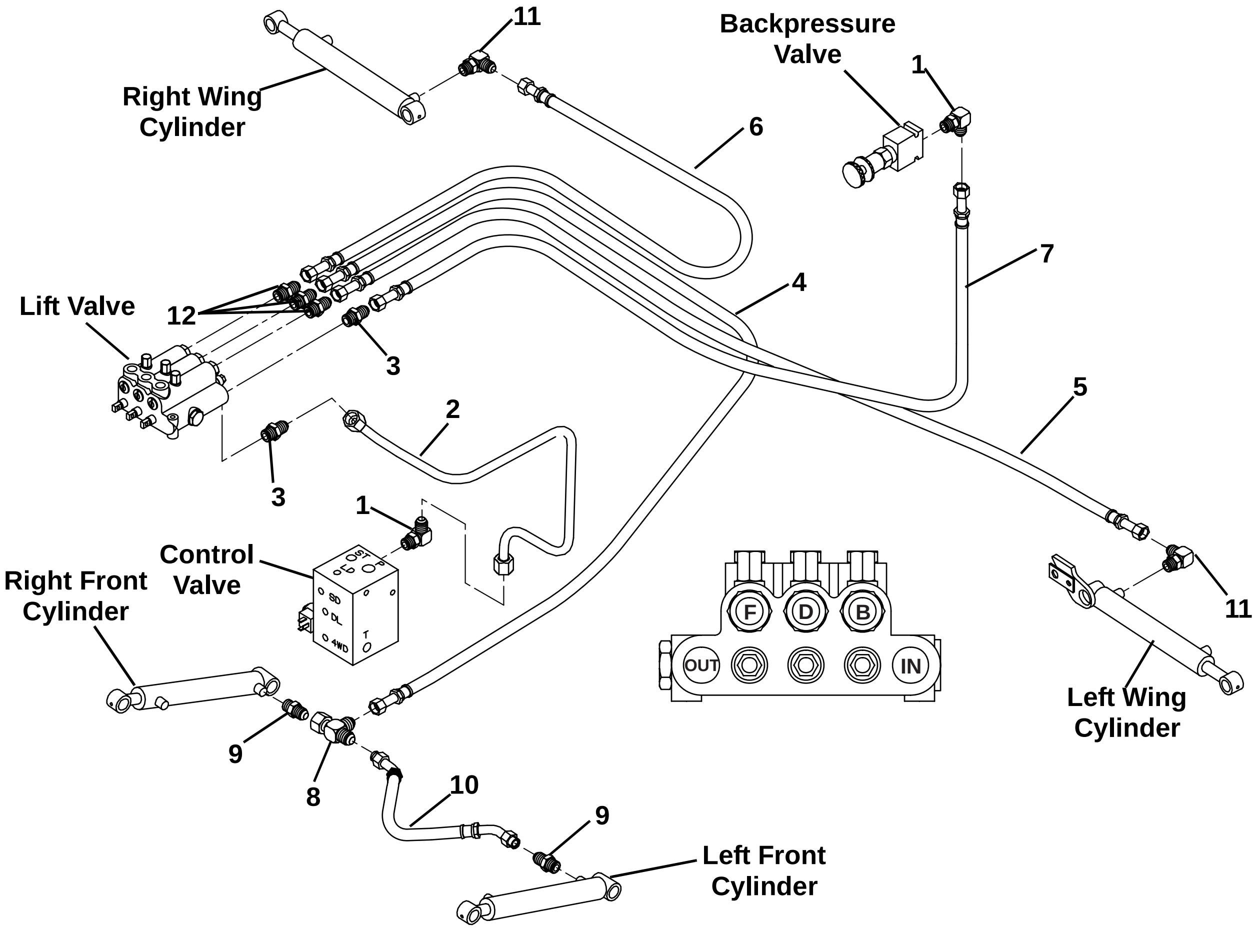
Serial No. 69158 All




| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 339984 | 1 | Adapter, Straight | |
| 2 | 123223 | 1 | Tube, Control Valve to Tube | |
| 3 | 339910 | 1 | O-Ring | |
| 4 | 2692222-05 | 1 | Hose, Tube to Steering Valve | Steering Valve Port IN |
| 5 | 340061 | 2 | Adapter, 90° | |
| | 132454 | 1 | Steering Cylinder Hose Assembly | |
| 6 | 132452 | 1 | • Hose, Steering Valve to Cylinder | Steering Valve Port LT, Base Port |
| 7 | 132452 | 1 | • Hose, Steering Cylinder to Valve | Steering Valve Port RT, Rod Port |

> Change from previous revision

## 33.1 Lift Hydraulics

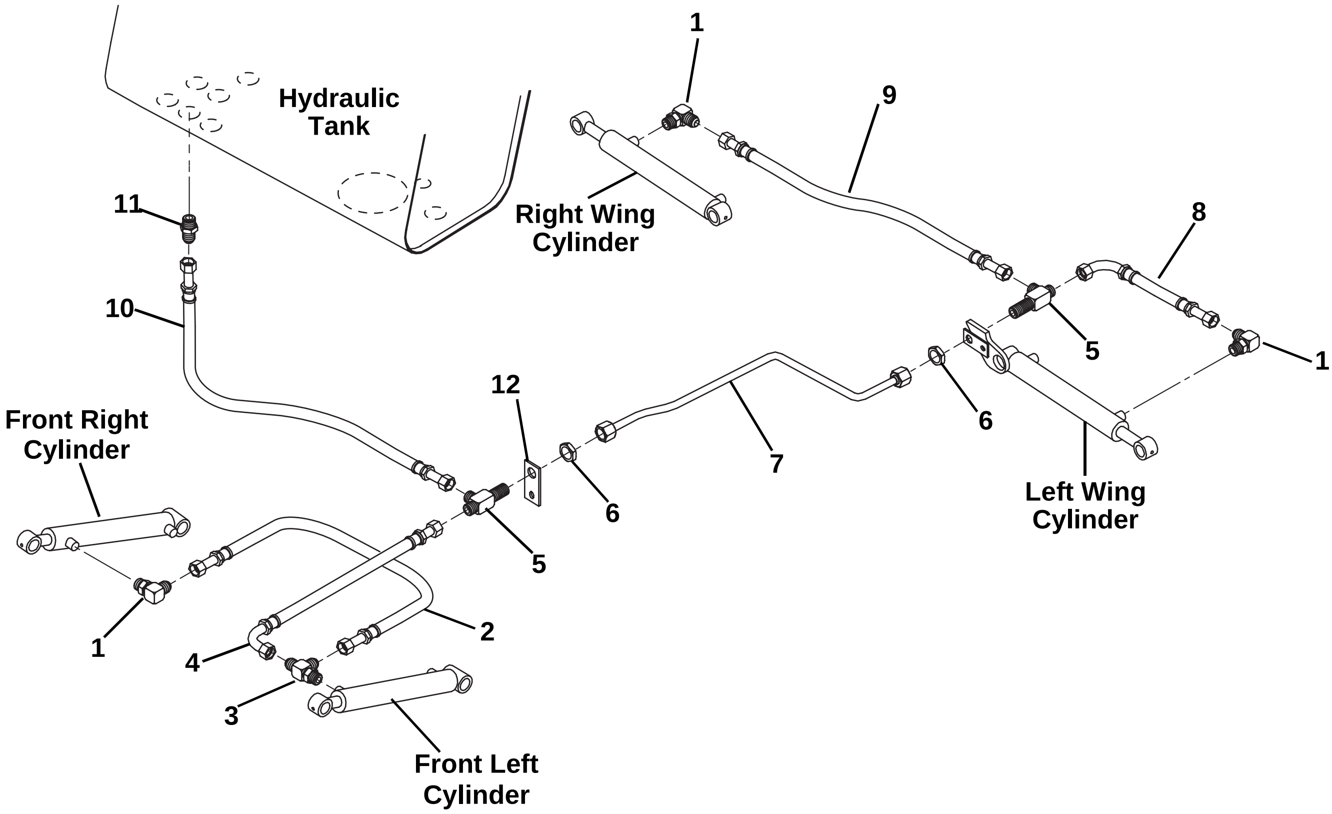



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340066 | 2 | Adapter, 90° | |
| 2 | 123222 | 1 | Tube, Control Valve to Lift Valve | Lift Valve Port IN |
| 3 | 339984 | 2 | Adapter, Straight | |
| 4 | 132571 | 1 | Hose, Lift Valve to Front Cylinders | Lift Valve Port D |
| 5 | 132571 | 1 | Hose, Lift Valve to Left Cylinder | Lift Valve Port F |
| 6 | 132573 | 1 | Hose, Lift Valve to Right Cylinder | Lift Valve Port B |
| 7 | 132867 | 1 | Hose, Lift to Backpressure Valve | Lift Valve Port OUT |
| 8 | 340119 | 1 | Adapter, Tee | |
| 9 | 340003 | 2 | Adapter, Straight | |
| 10 | 132559 | 1 | Hose, Cylinder to Cylinder | |
| 11 | 340078 | 2 | Adapter, 90° | |
| 12 | 339979 | 3 | Adapter, Straight | |

> Change from previous revision

## 34.1 Lift Return Hydraulics

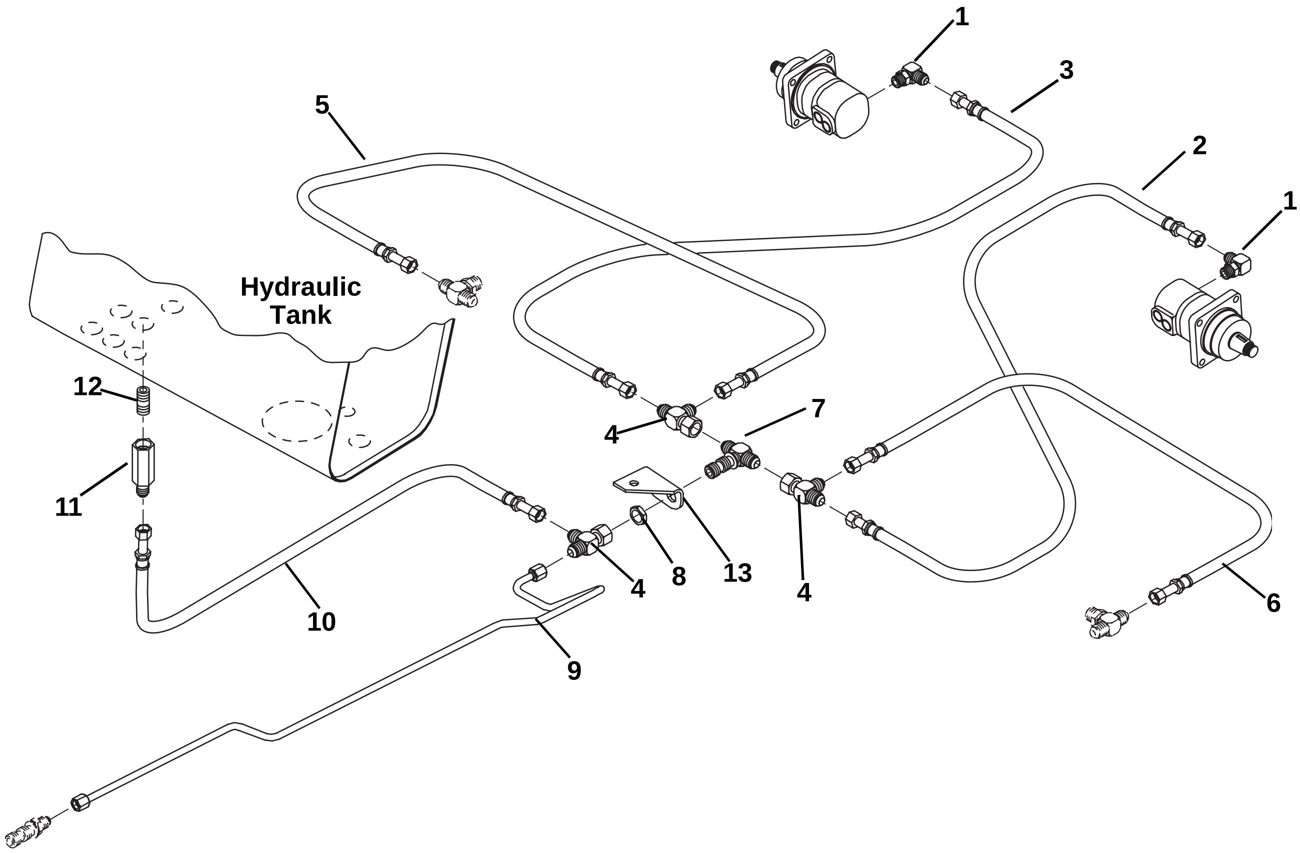
Serial No. 69158 All




| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340061 | 3 | Adapter, 90° | |
| 2 | 132573 | 1 | Hose, Cylinder to Cylinder | |
| 3 | 340263 | 1 | Adapter, Tee | |
| 4 | 132570 | 1 | Hose, Front Cylinder to Bulkhead | |
| 5 | 340215 | 2 | Adapter, Bulkhead Tee | |
| 6 | 339961 | 2 | • Nut, Bulkhead | |
| 7 | 2500117 | 1 | Tube, Bulkhead | |
| 8 | 132569 | 1 | Hose, Left Cylinder to Bulkhead | |
| 9 | 132568 | 1 | Hose, Right Cylinder to Bulkhead | |
| 10 | 132583 | 1 | Hose, Tee to Tank | |
| 11 | 351124 | 1 | Adapter, Straight | |
| 12 | REF | 1 | Bracket, Bulkhead | See 15.1 |

> Change from previous revision

# 35.1 Motor Return Hydraulics

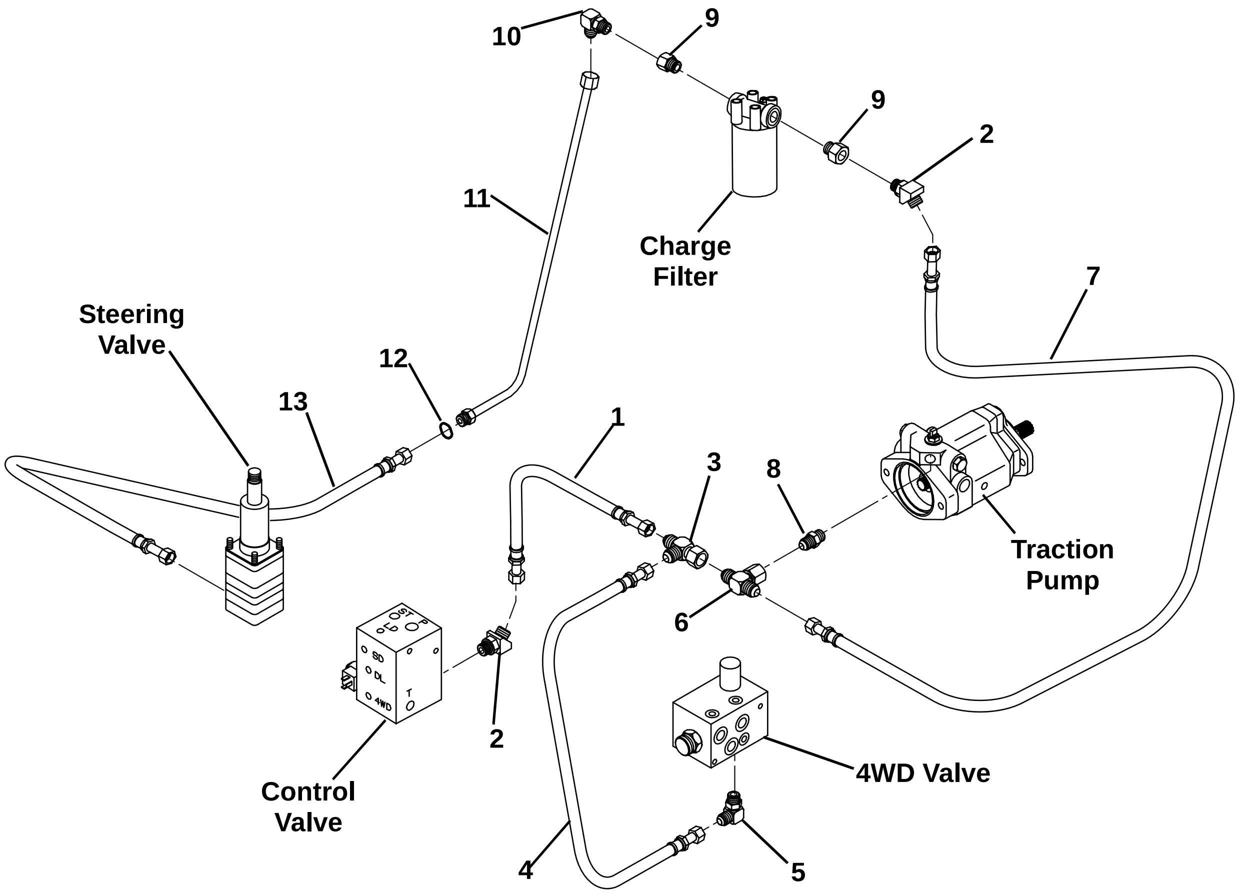



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340055 | 2 | Adapter, 90° | |
| 2 | REF | 1 | Hose, Left Wheel Motor Drain | See 29.1 |
| 3 | REF | 1 | Hose, Right Wheel Motor Drain | See 29.1 |
| 4 | 359186 | 3 | Adapter, Tee | |
| 5 | REF | 1 | Hose, Right Wing Deck Drain | See 41.1 |
| 6 | REF | 1 | Hose, Left Wing Deck Drain | See 40.1 |
| 7 | 360566 | 1 | Adapter, Bulkhead Tee | |
| 8 | 339960 | 1 | • Nut, Bulkhead | |
| 9 | 117129 | 1 | Tube, Front Deck Drain | |
| 10 | 132561 | 1 | Hose, Tee to Tank | |
| 11 | 365966 | 1 | Valve, Check | |
| 12 | 324943 | 1 | Nipple, Pipe | |
| 13 | REF | 1 | Plate, Bulkhead | See 26.1 |

> Change from previous revision

## 36.1 Charge Hydraulics

Serial No. 69158 All

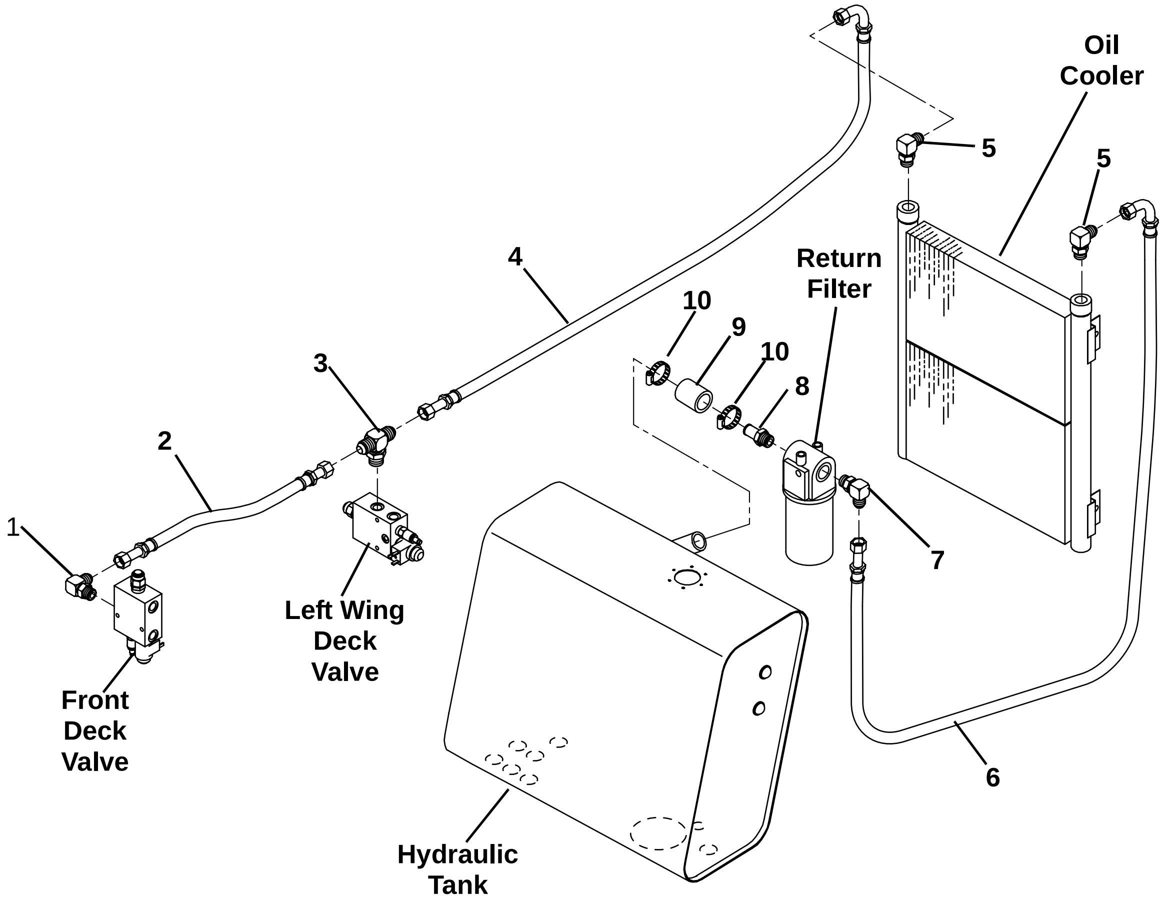



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 132540 | 1 | Hose, Control Valve to Tee | Control Valve Port F |
| 2 | 340029 | 2 | Adapter, 45° | |
| 3 | 340120 | 1 | Adapter, Tee | |
| 4 | 132864 | 1 | Hose, 4WD Valve to Tee | 4WD Valve Port C |
| 5 | 340061 | 1 | Adapter, 90° | |
| 6 | 340144 | 1 | Adapter, Tee | |
| 7 | 132486 | 1 | Hose, Tee to Charge Filter | |
| 8 | 339984 | 1 | Adapter, Straight | |
| 9 | 366430 | 2 | Reducer | |
| 10 | 340066 | 1 | Adapter, 90° | |
| 11 | 132535 | 1 | Tube, Charge Filter | |
| 12 | 339910 | 1 | O-Ring | |
| 13 | 132453 | 1 | Hose, Steering Valve to Filter Tube | Steering Valve Port OUT |

> Change from previous revision

# 37.1 Oil Cooler Hydraulics



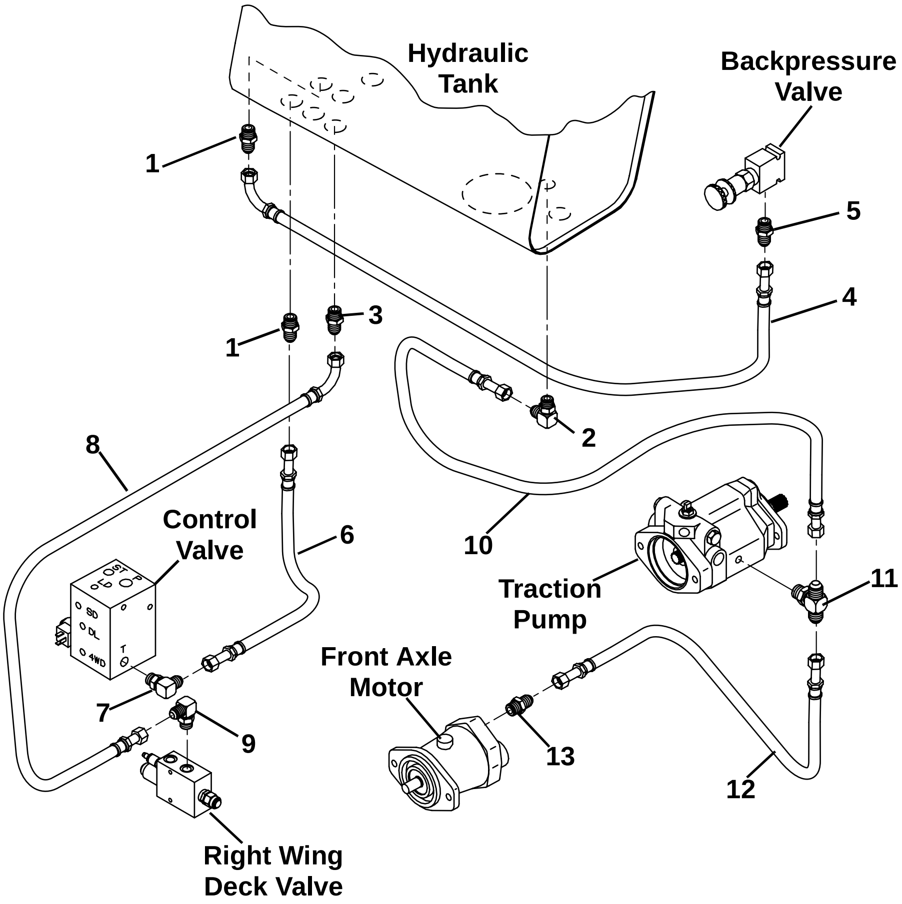



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340070 | 1 | Adapter, 90° | |
| 2 | 2692224-07 | 1 | Hose, Front to Left Wing Deck Valve | |
| 3 | 2720559 | 1 | Adapter, Tee | |
| 4 | 132441 | 1 | Hose, Left Valve to Oil Cooler | |
| 5 | 340077 | 2 | Adapter, 90° | |
| 6 | 1003705 | 1 | Hose, Oil Cooler to Return Filter | |
| 7 | 340089 | 1 | Adapter, 90° | |
| 8 | 163917 | 1 | Adapter, Beaded | |
| 9 | 365967 | 1 | Hose, Return Filter to Tank | |
| 10 | 326112 | 2 | Clamp, Hose | |

> Change from previous revision

## 38.1 Return Hydraulics

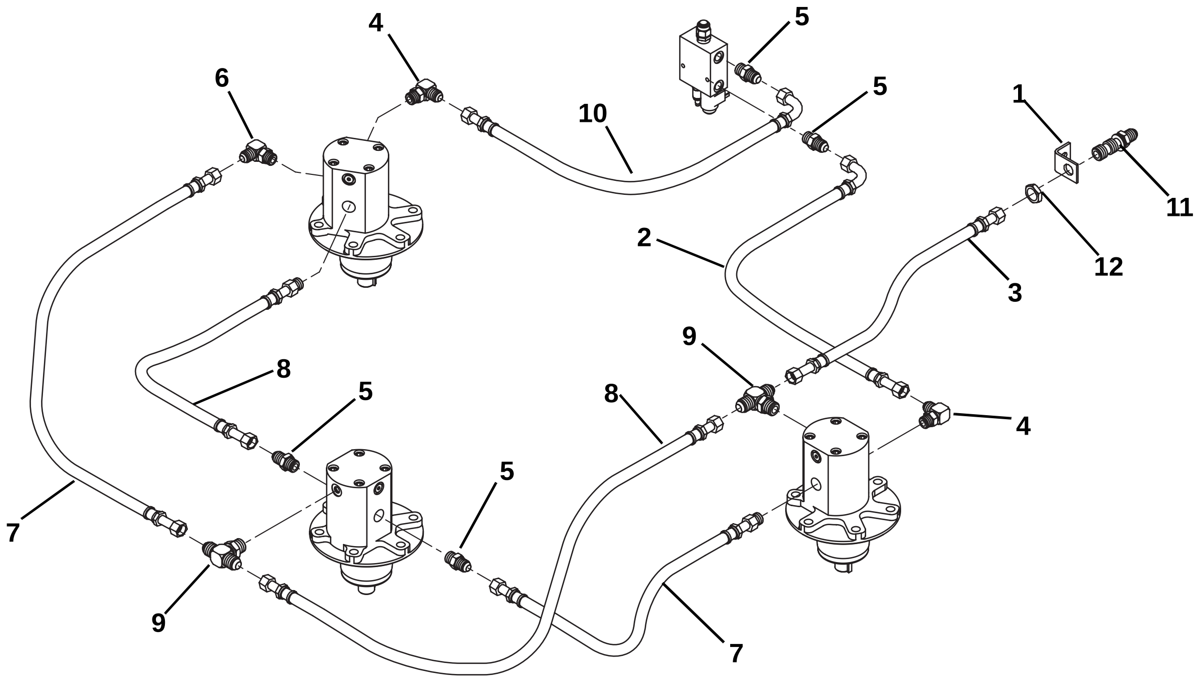
Serial No. 69158 All




| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 351124 | 2 | Adapter, Straight | |
| 2 | 358949 | 1 | Adapter, 90° | |
| 3 | 357613 | 1 | Adapter, Striaght | |
| 4 | 132866 | 1 | Hose, Backpressure Valve to Tank | |
| 5 | 351108 | 1 | Adapter, Straight | |
| 6 | 132579 | 1 | Hose, Control Valve to Tank | |
| 7 | 340066 | 1 | Adapter, 90° | |
| 8 | 132580 | 1 | Hose, Right Deck Valve to Tank | |
| 9 | 354065 | 1 | Adapter, 90° | |
| 10 | 132528 | 1 | Hose, Traction Pump to Tank | |
| 11 | 362446 | 1 | Adapter, Tee | |
| 12 | 132527 | 1 | Hose, Axle Motor to Traction Pump | |
| 13 | 351109 | 1 | Adapter, Straight | |

> Change from previous revision

## 39.1 Front Deck Hydraulics

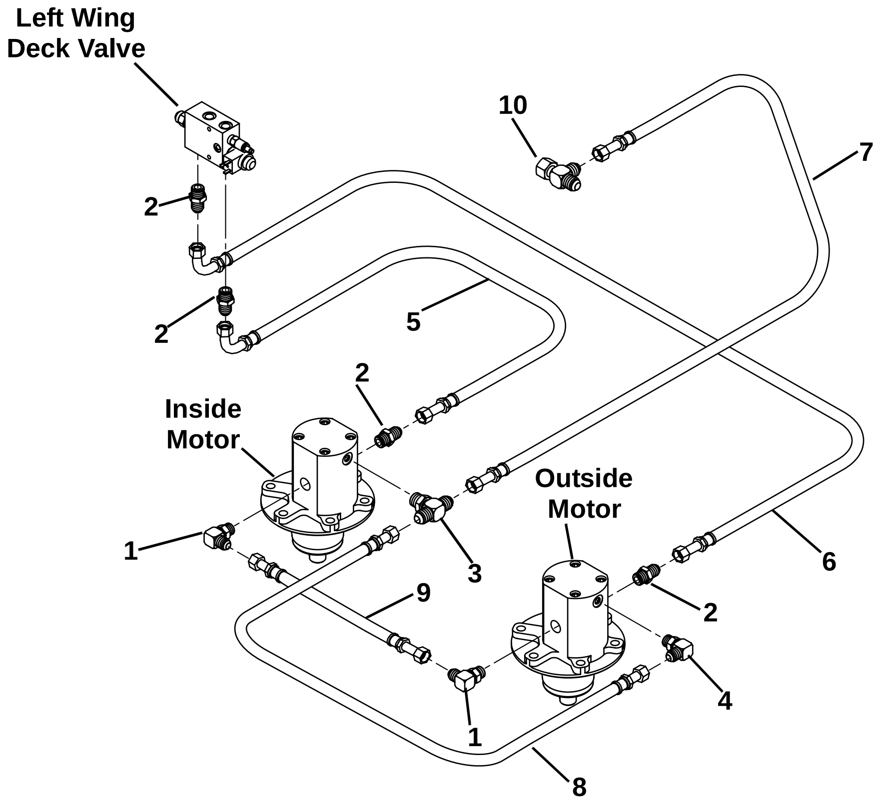



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | REF | 1 | Bracket, Bulkhead | See 15.1 |
| | 1003613 | 1 | Front Deck Hose Assembly | |
| 2 | 1003614 | 1 | • Hose, Front Valve to Motor | Front Deck Valve Port A |
| 3 | 1003615 | 1 | • Hose, Front Deck to Bulkhead | |
| 4 | 340070 | 2 | Adapter, 90° | |
| 5 | 339989 | 4 | Adapter, Straight | |
| 6 | 362288 | 1 | Adapter, 90° | |
| | 132591 | 2 | Motor Hose Assembly | |
| 7 | 132562 | 1 | • Hose, Motor Outlet to Motor Inlet | |
| 8 | 132563 | 1 | • Hose, Motor Drain | |
| 9 | 366445 | 2 | Adapter, Tee | |
| 10 | 132565 | 1 | Hose, Motor to Front Valve | Front Deck Valve Port B |
| 11 | 362078 | 1 | Adapter, Bulkhead | |
| 12 | 339960 | 1 | • Nut, Bulkhead | |

> Change from previous revision

## 40.1 Left Wing Deck Hydraulics

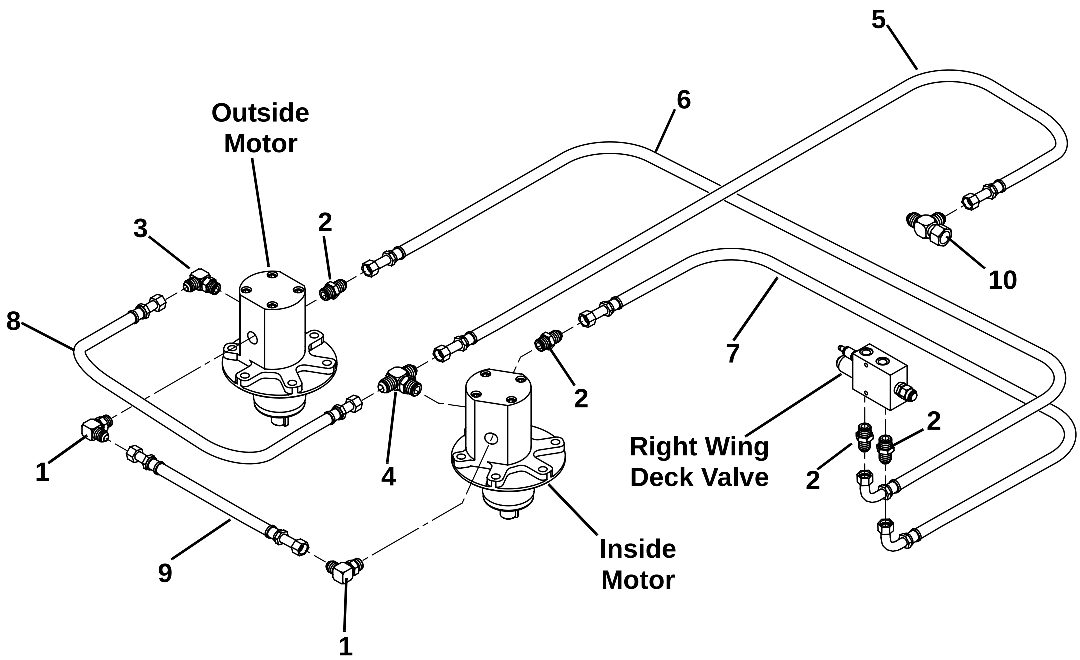
Serial No. All




| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340070 | 2 | Adapter, 90° | |
| 2 | 339989 | 4 | Adapter, Straight | |
| 3 | 366445 | 1 | Adapter, Tee | |
| 4 | 362288 | 1 | Adapter, 90° | |
| | 1003134 | 1 | Left Wing Deck Hose Assembly | |
| 5 | 132575 | 1 | • Hose, Left Valve to Motor | Left Wing Deck Valve Port A |
| 6 | 132576 | 1 | • Hose, Motor to Left Valve | Left Wing Deck Valve Port B |
| 7 | 132574 | 1 | • Hose, Left Deck Drain | |
| | 132594 | 1 | Motor Hose Assembly | |
| 8 | 132596 | 1 | • Hose, Motor Drain | |
| 9 | 132595 | 2 | • Hose, Motor Outlet to Motor Inlet | |
| 10 | REF | 1 | Adapter, Tee | See 35.1 |

> Change from previous revision

# 41.1 Right Wing Deck Hydraulics

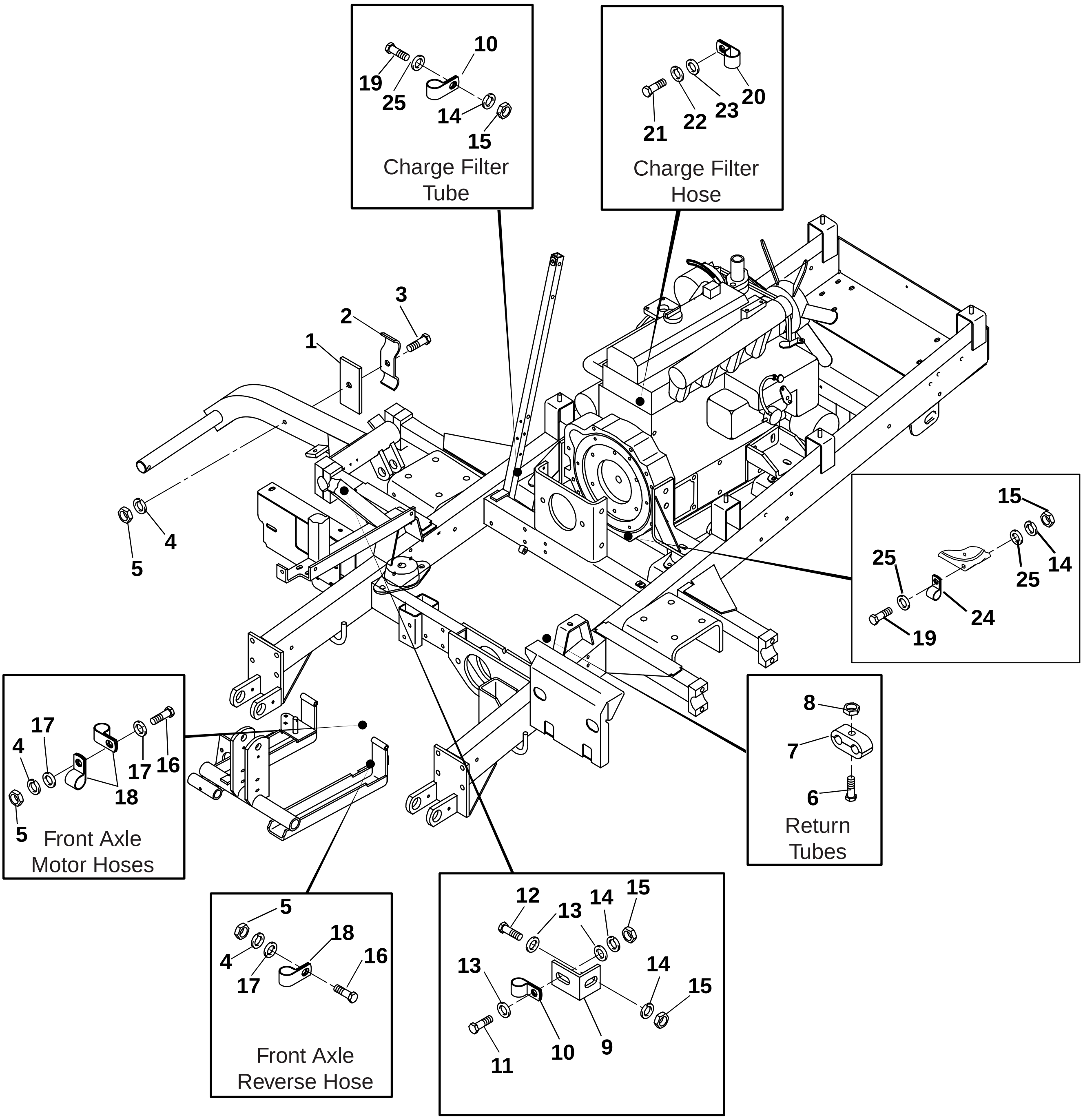



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 340070 | 2 | Adapter, 90° | |
| 2 | 339989 | 4 | Adapter, Straight | |
| 3 | 362288 | 1 | Adapter, 90° | |
| 4 | 366445 | 1 | Adapter, Tee | |
| | 1003133 | 1 | Right Wing Deck Hose Assembly | |
| 5 | 1003138 | 1 | • Hose, Right Wing Deck Drain | |
| 6 | 1003137 | 1 | • Hose, Right Valve to Motor | Right Wing Deck Valve Port A |
| 7 | 1003136 | 1 | • Hose, Motor to Right Valve | Right Wing Deck Valve Port B |
| | 132594 | 1 | Motor Hose Assembly | |
| 8 | 132596 | 1 | • Hose, Motor Drain | |
| 9 | 132597 | 1 | • Hose, Motor Outlet to Motor Inlet | |
| 10 | REF | 1 | Adapter, Tee | See 35.1 |

> Change from previous revision

## 42.1 Hydraulic Clamping

Serial No. 69158 All

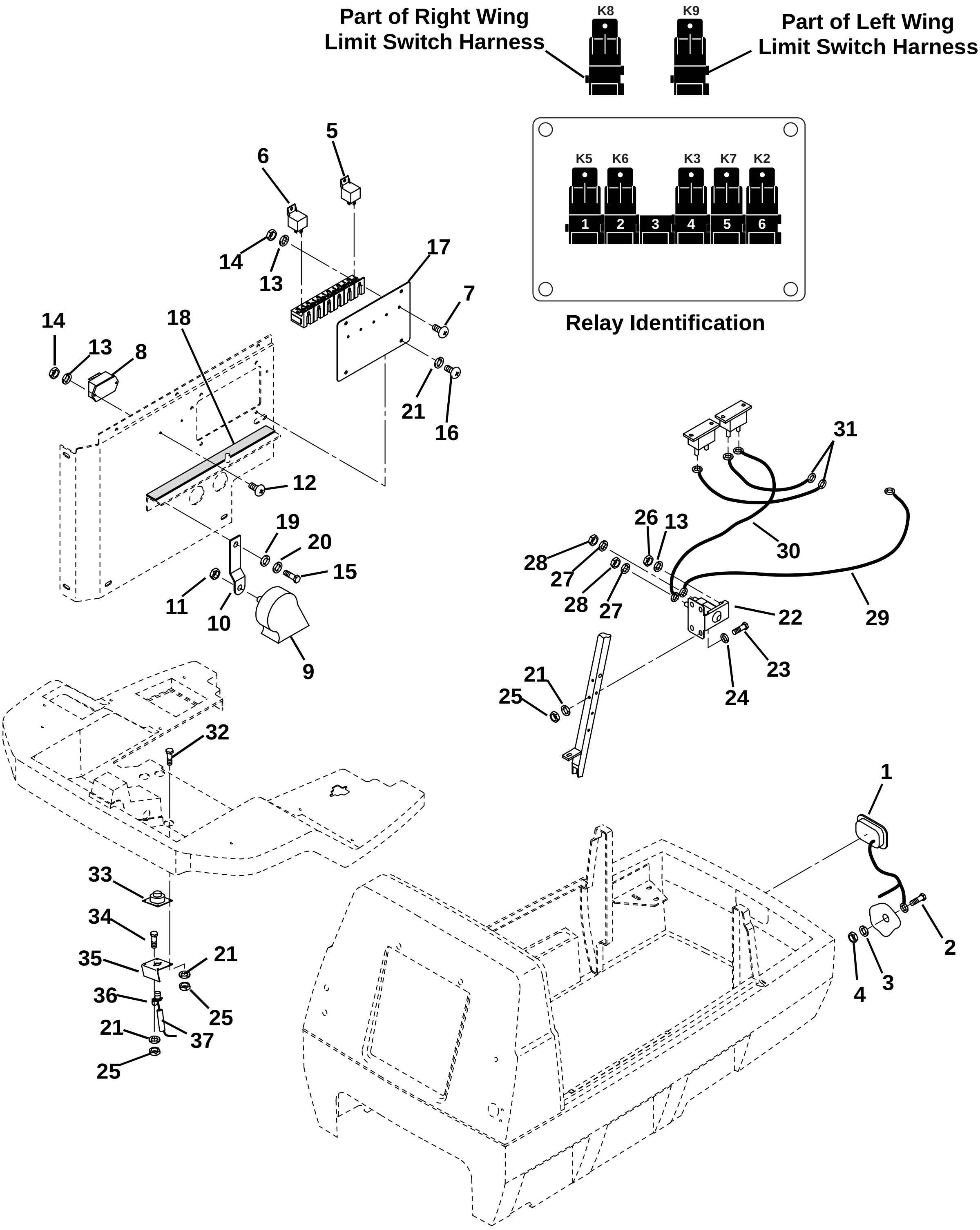


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 366607 | 2 | Spacer, Hose | |
| 2 | 359860 | 2 | Clamp, 2 Hose | |
| 3 | 400204 | 2 | Screw, 5/16-18 x 3-1/2” | |
| 4 | 446136 | 4 | Lockwasher, 5/16 Heavy | |
| 5 | 443106 | 4 | Nut, 5/16-18 Hex | |
| 6 | 400114 | 1 | Screw, 1/4-20 x 1-1/4” Hex Head | |
| 7 | 364221 | 1 | Clamp, Double Tube | |
| 8 | 444708 | 1 | Locknut, 1/4-20 Center | |
| 9 | 366345 | 1 | Bracket, Clamp | |
| 10 | 345666 | 1 | Clamp, Hose | |
| 11 | 400112 | 1 | Screw, 1/4-20 x 1” Hex Head | |
| 12 | 400122 | 1 | Screw, 1/4-20 x 2-1/4” Hex Head | |
| 13 | 453023 | 2 | Flat Washer, 1/4 | |
| 14 | 446130 | 4 | Lockwasher, 1/4 Heavy | |
| 15 | 443102 | 4 | Nut, 1/4-20 Hex | |
| 16 | 400188 | 2 | Screw, 5/16-18 x 1” Hex Head | |
| 17 | 452006 | 3 | Flat Washer, 5/16 | |
| 18 | 365566 | 3 | Clamp | |
| 19 | 400116 | 2 | Screw, 1/4-20 x 1-1/2” Hex Head | |
| 20 | 354080 | 1 | Clamp, Hose | |
| 21 | 550376 | 1 | Bolt | Included with Engine |
| 22 | 550409 | 1 | Washer, Spring | Included with Engine |
| 23 | 550380 | 1 | Washer, Plain | Included with Engine |
| 24 | 361064 | 1 | Clamp | |
| 25 | 452004 | 3 | Flat Washer, 1/4 | |
| | 473142 | 2 | Cable Tie | Front Cylinder Return Hose (1)<br>Deck Valve Hose to Tube (1) |
| | 473144 | 1 | Cable Tie, 5/16 x 16” (Not Shown) | Steering Hoses to Console Support |
| | 473137 | 4 | Cable Tie, 5/16 x 9” (Not Shown) | Front Lift Cylinder Hoses (2)<br>Front Deck Motor Hoses (1)<br>Control Valve Hoses (1) |

> Change from previous revision

## 43.1 Electrical Components

Serial No. 69158 All

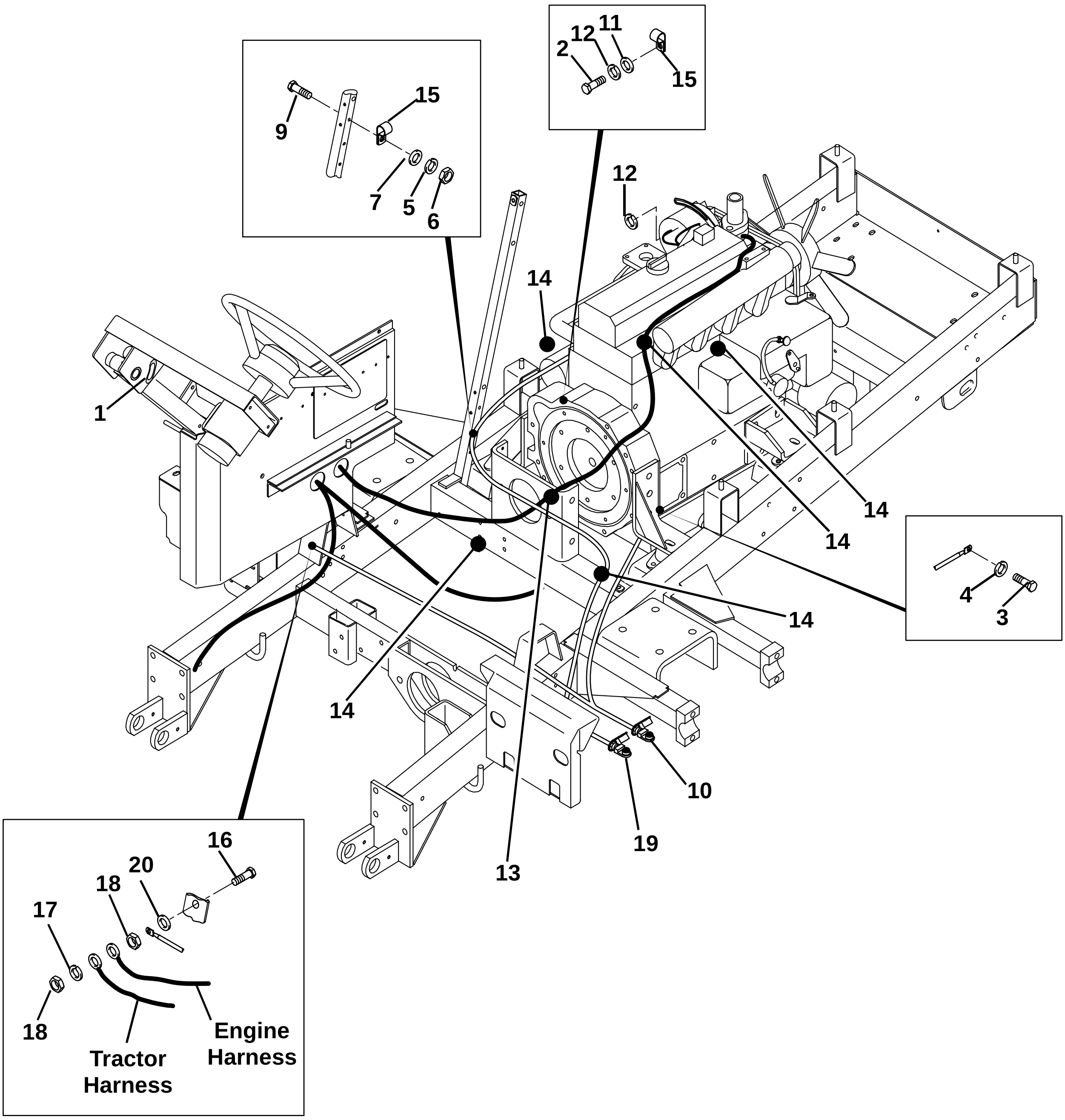


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 132488 | 1 | Tail Light | **REFERENCE L11, See 67.1** |
| | 555869 | 1 | • Tail Light | |
| | 555870 | 1 | • Grommet | |
| | 555871 | 1 | • Harness | |
| 2 | 400336 | 1 | Screw, 7/16-14 x 1-1/4” Hex head | |
| 3 | 446148 | 1 | Lockwasher, 7/16 Heavy | |
| 4 | 443114 | 1 | Nut, 7/16-14 Hex | |
| 5 | 3001307 | 1 | Relay SPDT | **REFERENCE K5, See 67.1** |
| 6 | 365963 | 6 | Relay, SPST | **REFERENCE K2, K3, K6, K7, K8, K9, See 67.1** |
| 7 | 403908 | 2 | Screw, #10-24 x 3/8” Truss Head | |
| 8 | 3003036 | 1 | Relay, Seat Time Delay | **REFERENCE K4, See 67.1** |
| 9 | 5000917 | 1 | Horn | **REFERENCE U9, See 67.1** |
| 10 | 5000915 | 1 | • Bracket | |
| 11 | 5000916 | 1 | • Nut | |
| 12 | 403910 | 2 | Screw, #10-24 x 1/2” Truss Head | |
| 13 | 446116 | 6 | Lockwasher, #10 | |
| 14 | 444310 | 4 | Nut, #10-24 Hex | |
| 15 | 400184 | 1 | Screw, 5/16-18 x 3/4” Hex Head | |
| 16 | 403759 | 4 | Screw, 1/4-20 x 5/8” Truss Head | |
| 17 | 366308 | 1 | Plate | |
| 18 | 366373 | 1 | Pad, Seat | |
| 19 | 452006 | 1 | Flat Washer, 5/16 | |
| 20 | 446271 | 1 | Lockwasher, 5/16-18 Heavy | |
| 21 | 446130 | 14 | Lockwasher, 1/4 Heavy | |
| 22 | 131905 | 1 | Solenoid, Glow Plug | **REFERENCE K1, See 67.1** |
| 23 | 400118 | 4 | Screw, 1/4-20 x 1-3/4” Hex Head | |
| 24 | 453023 | 4 | Flat Washer, 1/4 | |
| 25 | 443102 | 10 | Nut, 1/4-20 Hex | |
| 26 | 444312 | 2 | Nut, #10-32 Hex | |
| 27 | 446136 | 2 | Lockwasher, 5/16 Heavy | |
| 28 | 443808 | 2 | Nut, 5/16-24 Hex Jam | |
| 29 | 365962 | 1 | Wire, Solenoid to Glow Plug | |
| 30 | 163918 | 1 | Wire, Circuit Breaker to Solenoid | |
| 31 | 365711 | 2 | Wire, Starter to Circuit Breaker | |
| 32 | 400112 | 4 | Screw, 1/4-20 x 1” Hex head | |
| 33 | 365960 | 1 | Cover, Switch | |
| 34 | 400106 | 2 | Screw, 1/4-20 x 5/8” Hex Head | |
| 35 | 366039 | 1 | Mounting Plate | |
| 36 | 364882 | 1 | Differential Lock Switch | |
| 37 | 360176 | 1 | Wire Cover | |

> Change from previous revision

## 44.1 Electrical Routing



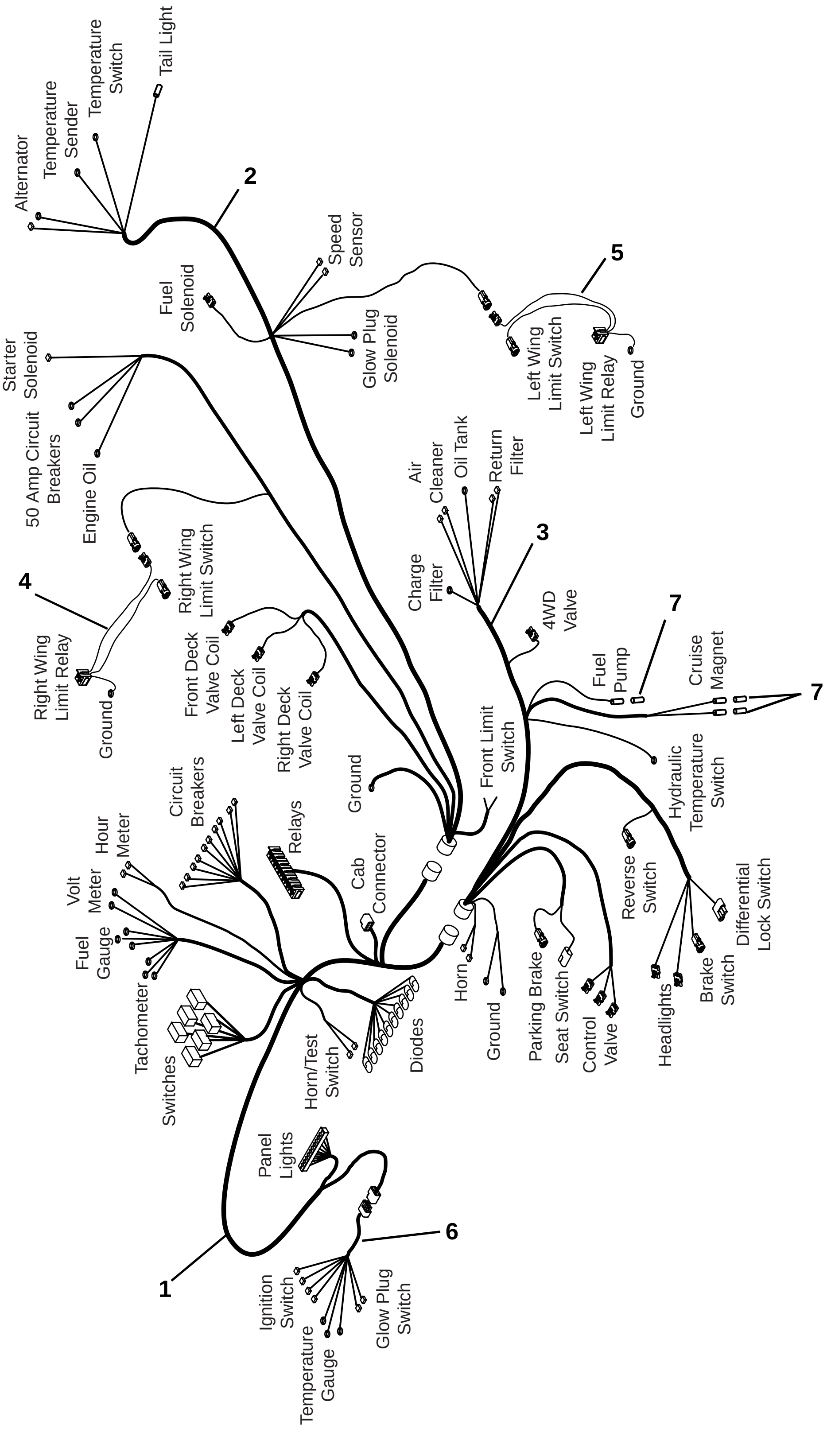


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 365660 | 1 | Grommet | |
| 2 | 362263 | 1 | Screw, M10-1.25 x 25 mm | |
| 3 | 365980 | 1 | Screw, M12-1.25 x 20 mm | |
| 4 | 446154 | 1 | Lockwasher, 1/2 Heavy | |
| 5 | 446130 | 1 | Lockwasher, 1/4 Heavy | |
| 6 | 443102 | 1 | Nut, 1/4-20 Hex | |
| 7 | 453023 | 1 | Flat Washer, 1/4 | |
| 8 | 361064 | 1 | Clamp | |
| 9 | 400120 | 1 | Screw, 1/4-20 x 2” | |
| 10 | 2720726 | 1 | Negative Battery Cable | |
| 11 | 453011 | 1 | Flat Washer, 3/8 | |
| 12 | 446148 | 1 | Lockwasher, 7/16 | |
| 13 | 473144 | 2 | Cable Tie | |
| 14 | 473137 | 4 | Cable Tie | |
| 15 | 345671 | 2 | Clamp | |
| 16 | 400190 | 1 | Screw, 5/16-18 x 1-1/4” Hex Head | |
| 17 | 446136 | 1 | Lockwasher, 5/16 Heavy | |
| 18 | 443106 | 1 | Nut, 5/16-18 Hex | |
| 19 | 1002397 | 1 | Positive Battery Cable | |
| 20 | 452006 | 1 | Flat Washer, 5/16 | |

> Change from previous revision

## 45.1 Harness

Serial No. 69158 All

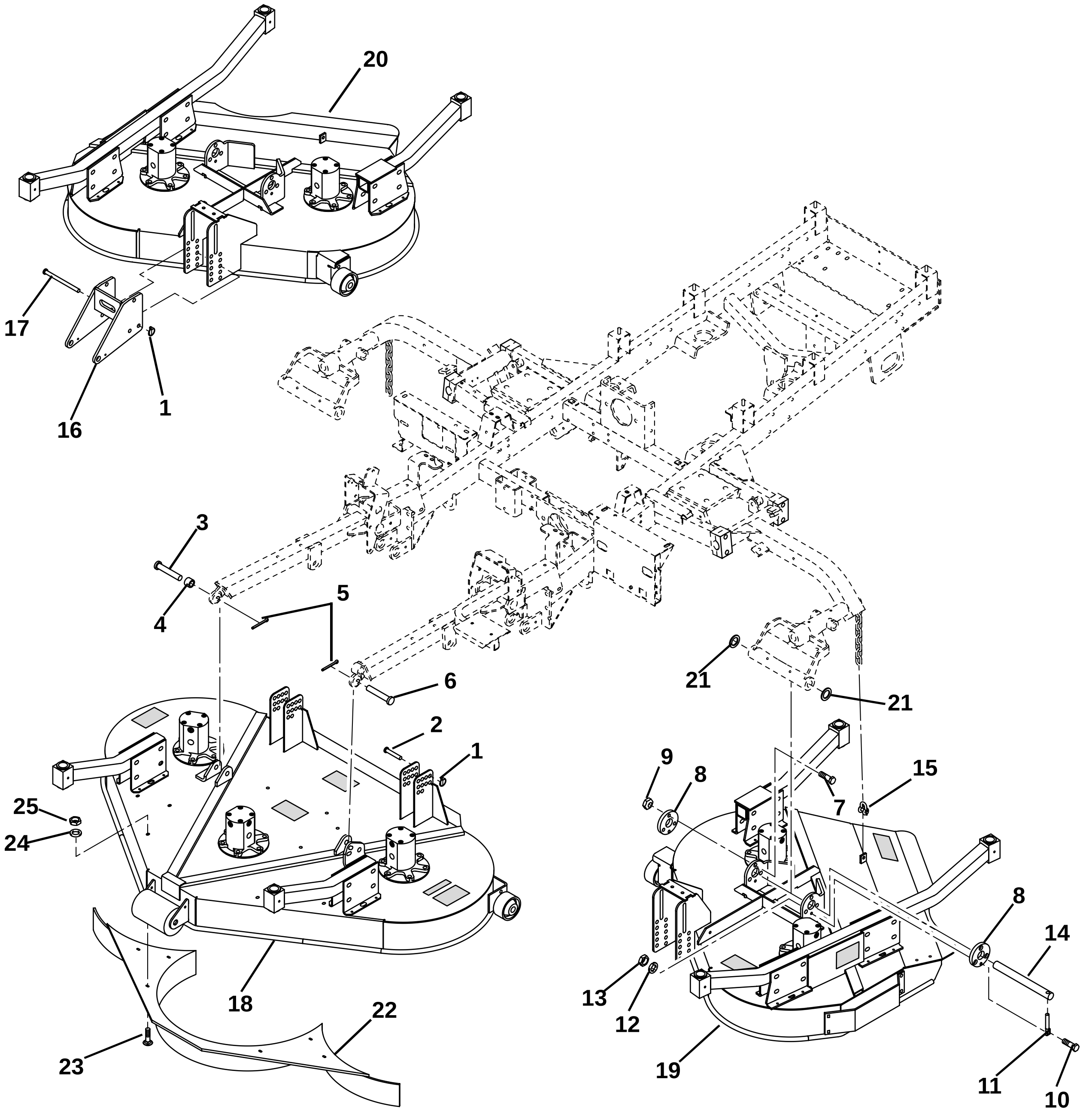


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 1004542 | 1 | Wire Harness, Console | |
| | 554492 | 2 | • Lockwasher, Size 24 | |
| | 554493 | 2 | • Panel Nut, Size 24 | |
| | 555845 | 10 | • Light Bulb | |
| | 555846 | 10 | • Diode | |
| | 555847 | 1 | • Light Strip | |
| 2 | 1004523 | 1 | Wire Harness, Engine | |
| 3 | 1004522 | 1 | Wire Harness, Tractor | |
| 4 | 1003002 | 1 | Wire Harness, Right Wing Limit | |
| 5 | 1003002 | 1 | Wire Harness, Left Wing Limit | |
| 6 | 1001963 | 1 | Wire Harness, Ignition | |
| 7 | 473108 | 3 | Insulated Bullet Connector | |
| | 554748 | 1 | Tube, Wire Protector (Not Shown) | Cruise Control Magnet Wires |

> Change from previous revision

## 46.1 Deck Mounting

Serial No. 69158 All

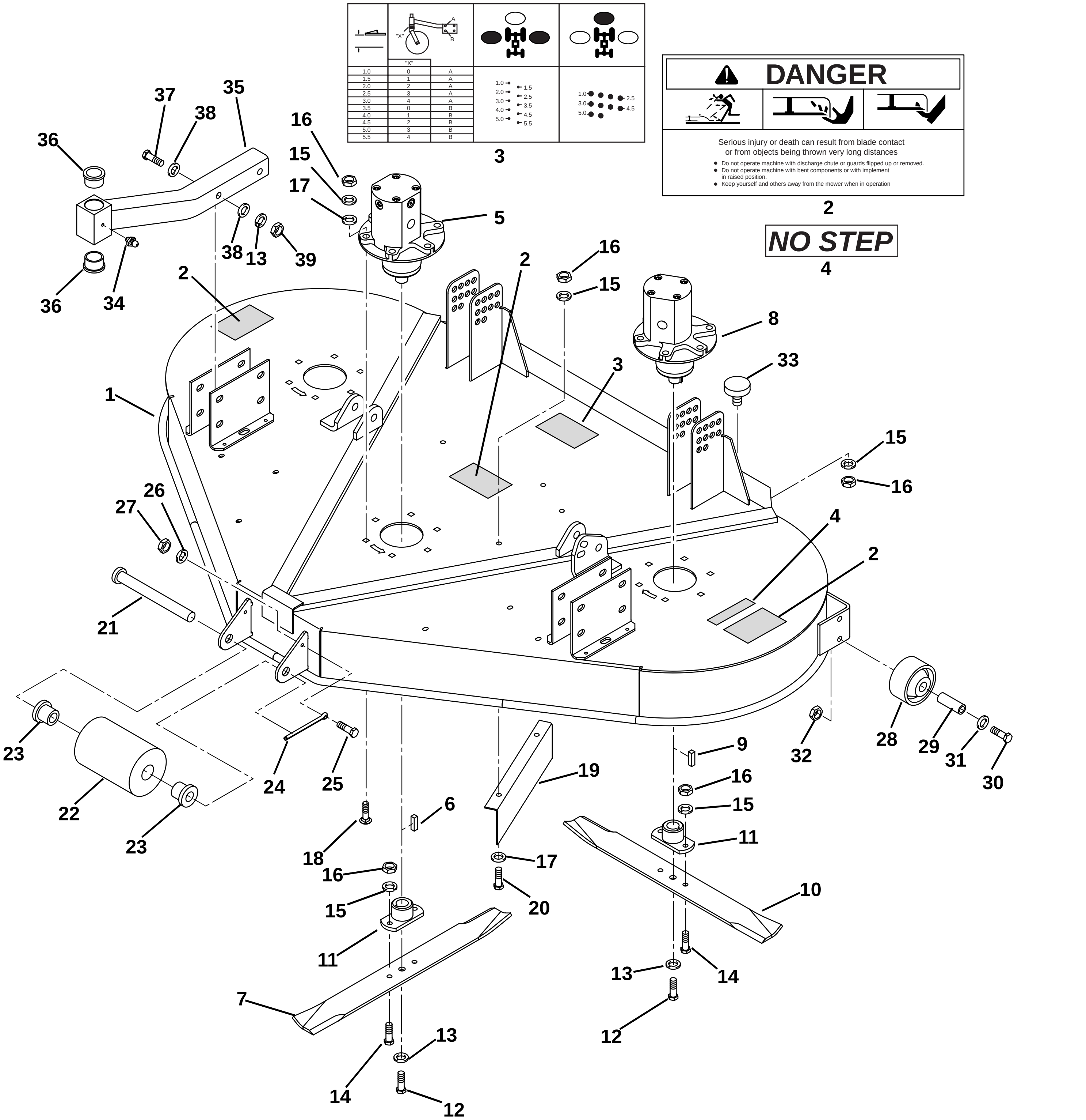


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 342675 | 6 | Pin, Snap RIng | |
| 2 | 3000439 | 2 | Clevis Pin, 1/2 x 3-3/4” | |
| 3 | 3000487 | 1 | Clevis Pin, 5/8 x 3” | |
| 4 | 346913 | 1 | Spacer | |
| 5 | 460050 | 2 | Cotter Pin, 3/16 x 1-1/4” | |
| 6 | 3006300 | 1 | Clevis Pin, 5/8 x 3-5/16” | |
| 7 | 362464 | 12 | Wheel Bolt, 7/16-20 | |
| 8 | 340433 | 4 | Ring Shaft | |
| 9 | 346294 | 12 | Nut, 7/16-20 Wheel Lug | |
| 10 | 400192 | 2 | Screw, 5/16-18 x 1-1/2” Hex Head | |
| 11 | 366520 | 2 | Retainer Pin | |
| 12 | 446136 | 2 | Lockwasher, 5/16 Heavy | |
| 13 | 443106 | 2 | Nut, 5/16-18 Hex | |
| 14 | 366484 | 2 | Shaft, Pivot | |
| 15 | 162716 | 2 | Shackle | |
| 16 | 132600 | 2 | Caster Support | |
| 17 | 163995 | 4 | Pin | |
| 18 | REF | 1 | Front Deck Assembly | See 47.1 |
| 19 | REF | 1 | Left Wing Deck Assembly | See 48.1 |
| 20 | REF | 1 | Right Wing Deck Assembly | See 48.1 |
| 21 | 367601 | 4 | Washer, Thrust | |
| 22 | 2246003 | 1 | Baffle | |
| 23 | 441602 | 6 | Carriage Bolt, 5/16-18 x 3/4” | |
| 24 | 452006 | 6 | Flat Washer, 5/16 | |
| 25 | 445802 | 6 | Nut, 5/16-18 Flex Lock | |

> Change from previous revision

## 47.1 Front Deck

Serial No. 69158 All



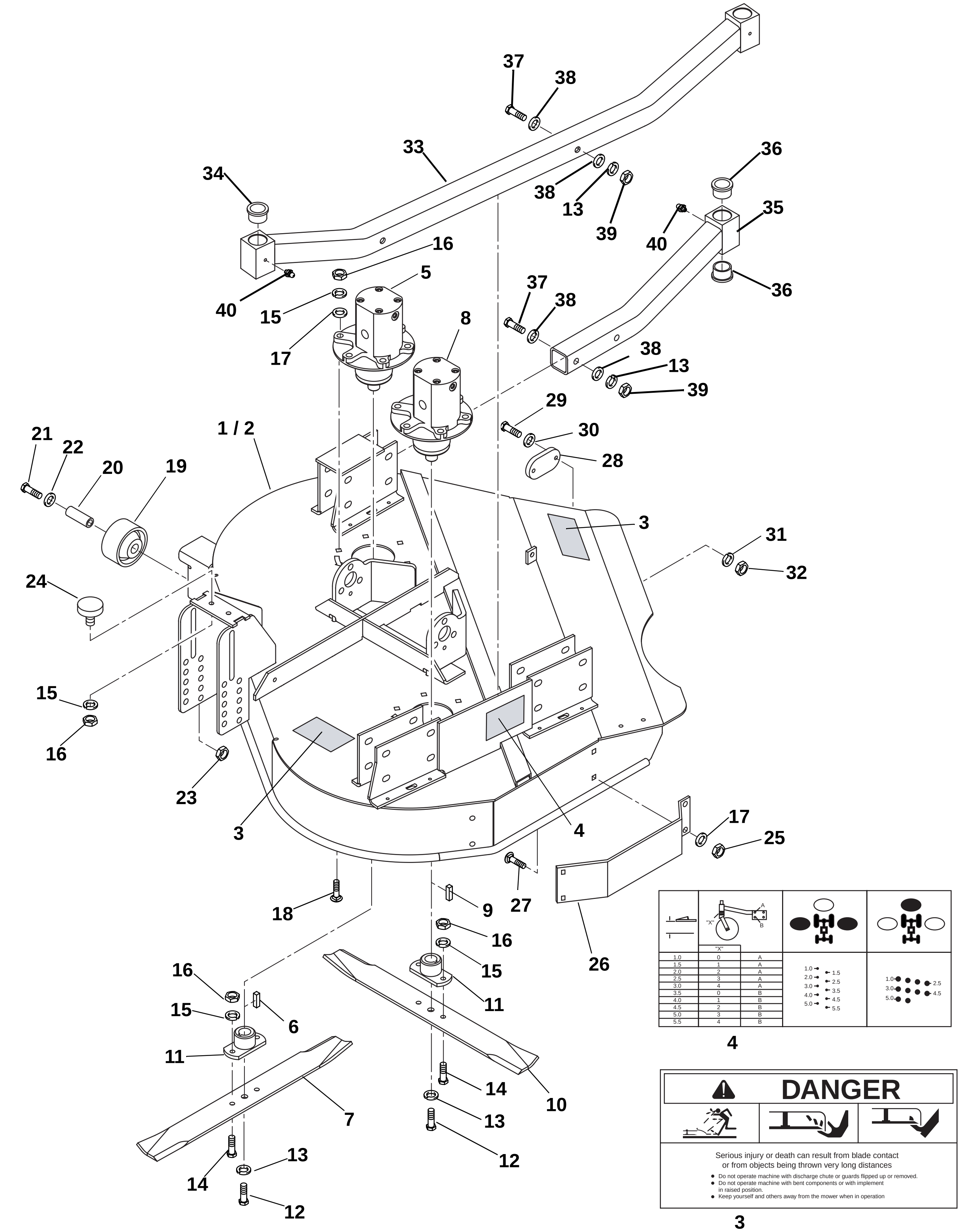
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 503573 | 1 | Front Deck | |
| 2 | 3002502 | 3 | • Decal, Blade Contact Danger | |
| 3 | 3002676 | 1 | • Decal, Cutting Height | |
| 4 | 366609 | 1 | • Decal, No Step | |
| 5 | 2721180 | 2 | Motor, Deck | Counter-Clockwise Rotation |
| 6 | 557523 | 1 | • Key | |
| 7 | 391039 | 2 | Blade, Couter-Clockwise Rotation | |
| 8 | 2721181 | 1 | Motor, Deck | Clockwise Rotation |
| 9 | 557523 | 1 | • Key | |
| 10 | 391040 | 1 | Blade, Clockwise Rotation | |
| 11 | 1001885 | 3 | Adapter, Blade | |
| 12 | 400410 | 3 | Screw, 1/2-13 x 1-3/4" Hex Head | |
| 13 | 446154 | 7 | Lockwasher, 1/2 Heavy | |
| 14 | 400264 | 6 | Screw, 3/8-16 x 1-1/4" Hex Head | |
| 15 | 446142 | 28 | Lockwasher, 3/8 Heavy | |
| 16 | 443110 | 28 | Nut, 3/8-16 Hex | |
| 17 | 453011 | 20 | Flat Washer, 3/8 | |
| 18 | 441625 | 18 | Carriage Bolt, 3/8-16 x 1-1/2" | |
| 19 | 367461 | 1 | Plate, Deck Baffle | |
| 20 | 400262 | 2 | Screw, 3/8-16 x 1" Hex Head | |
| 21 | 3002737 | 1 | Shaft, Roller | |
| 22 | 163425 | 1 | Roller | |
| 23 | 552824 | 2 | • Bushing | |
| 24 | 460076 | 1 | Cotter Pin, 1/4 x 3-1/2" | |
| 25 | 400108 | 1 | Screw, 1/4-20 x 3/4" Hex Head | |
| 26 | 446130 | 1 | Lockwasher, 1/4 Heavy | |
| 27 | 443102 | 1 | Nut, 1/4-20 Hex | |
| 28 | 366562 | 2 | Wheel, Deck | |
| 29 | 367140 | 2 | Spacer, Wheel | |
| 30 | 400348 | 2 | Screw, 7/16-14 x 3" Hex Head | |
| 31 | 453013 | 2 | Flat Washer, 7/16 | |
| 32 | 444753 | 2 | Locknut, 7/16-14 Center | |
| 33 | 361723 | 2 | Stop, Rubber | |
| 34 | 471214 | 2 | Grease Fitting, Straight | |
| 35 | 2720171 | 2 | Caster Arm | |
| 36 | 2720198 | 2 | • Bushing, Caster | |
| 37 | 400420 | 4 | Screw, 1/2-13 x 3-1/2" Hex Head | |
| 38 | 453017 | 4 | Flat Washer, 1/2 | |
| 39 | 443118 | 4 | Nut, 1/2-13 Hex | |

> Change from previous revision

## 48.1 Wing Deck

Serial No. 69158 All

**Left Wing Deck Shown (Right Opposite)**

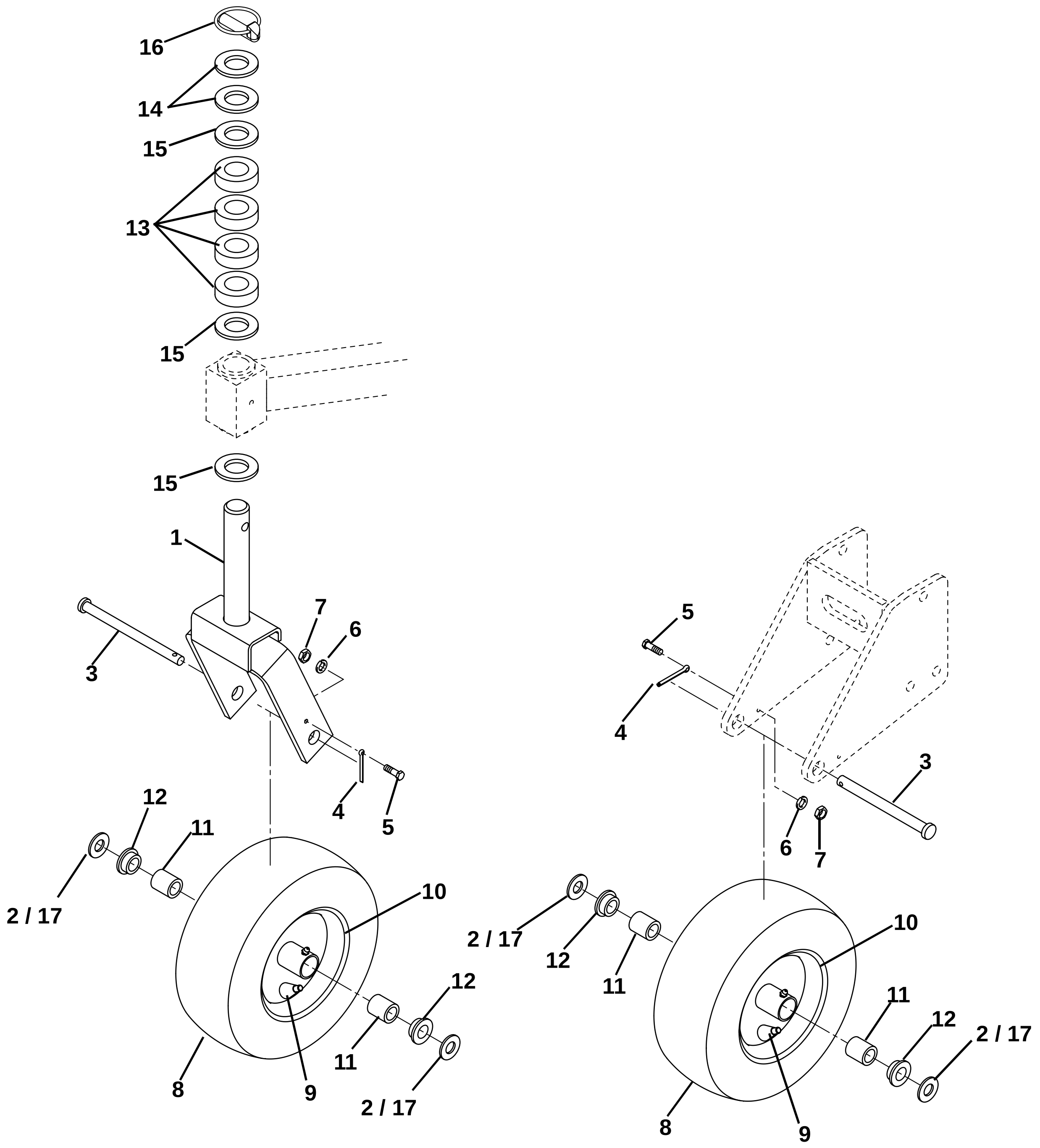


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5001073 | 1 | Left Wing Deck | Includes Items 3 and 4 |
| 2 | 5001072 | 1 | Right WIng Deck (Not Shown) | |
| 3 | 3002502 | 2 | • Decal, Blade Contact Danger | |
| 4 | 3002676 | 1 | • Decal, Cutting Height | |
| 5 | 2721180 | 2 | Motor, CCW Rotation Deck | Outside motor on Right Deck |
| 6 | 557523 | 1 | • Key | |
| 7 | 391039 | 2 | Blade, Couter-Clockwise Rotation | |
| 8 | 2721181 | 2 | Motor, CW Rotation Deck | Inside Motor on Right Deck |
| 9 | 557523 | 1 | • Key | |
| 10 | 391040 | 2 | Blade, Clockwise Rotation | |
| 11 | 1001885 | 4 | Adapter, Blade | |
| 12 | 400410 | 4 | Screw, 1/2-13 x 1-3/4” Hex Head | |
| 13 | 446154 | 12 | Lockwasher, 1/2 Heavy | |
| 14 | 400264 | 8 | Screw, 3/8-16 x 1-1/4” Hex Head | |
| 15 | 446142 | 34 | Lockwasher, 3/8 Heavy | |
| 16 | 443110 | 34 | Nut, 3/8-16 Hex | |
| 17 | 453011 | 32 | Flat Washer, 3/8 | |
| 18 | 441625 | 24 | Carriage Bolt, 3/8-16 x 1-1/2” | |
| 19 | 366562 | 2 | Wheel, Deck | |
| 20 | 367140 | 2 | Spacer, Wheel | |
| 21 | 400348 | 2 | Screw, 7/16-14 x 3” Hex Head | |
| 22 | 453013 | 2 | Flat Washer, 7/16 | |
| 23 | 444753 | 2 | Locknut, 7/16-14 Center | |
| 24 | 361723 | 2 | Stop, Rubber | |
| 25 | 444762 | 8 | Locknut, 3/8-16 Center | |
| 26 | 340429 | 2 | Bumper, Deck | |
| 27 | 441624 | 8 | Carriage Bolt, 3/8-16 x 1” | |
| 28 | 365991 | 2 | Reflector | |
| 29 | 403746 | 4 | Screw, #10-24 x 3/4” Hex Head | |
| 30 | 452002 | 4 | Flat Washer, #110 | |
| 31 | 446116 | 4 | Lockwasher, #10 | |
| 32 | 444310 | 4 | Nut, #10-24 Hex | |
| 33 | 2720170 | 2 | Arm, Outside Caster | |
| 34 | 363539 | 4 | • Bushing | |
| 35 | 2720171 | 2 | Arm, Inside Caster | |
| 36 | 363539 | 4 | • Bushing | |
| 37 | 400420 | 8 | Screw, 1/2-13 x 3-1/2” Hex Head | |
| 38 | 453017 | 16 | Flat Washer, 1/2 | |
| 39 | 443118 | 8 | Nut, 1/2-13 Hex | |
| 40 | 471214 | 6 | Grease Fitting, Straight | |

> Change from previous revision

## 49.1 Caster Wheels

Serial No. 69158 All

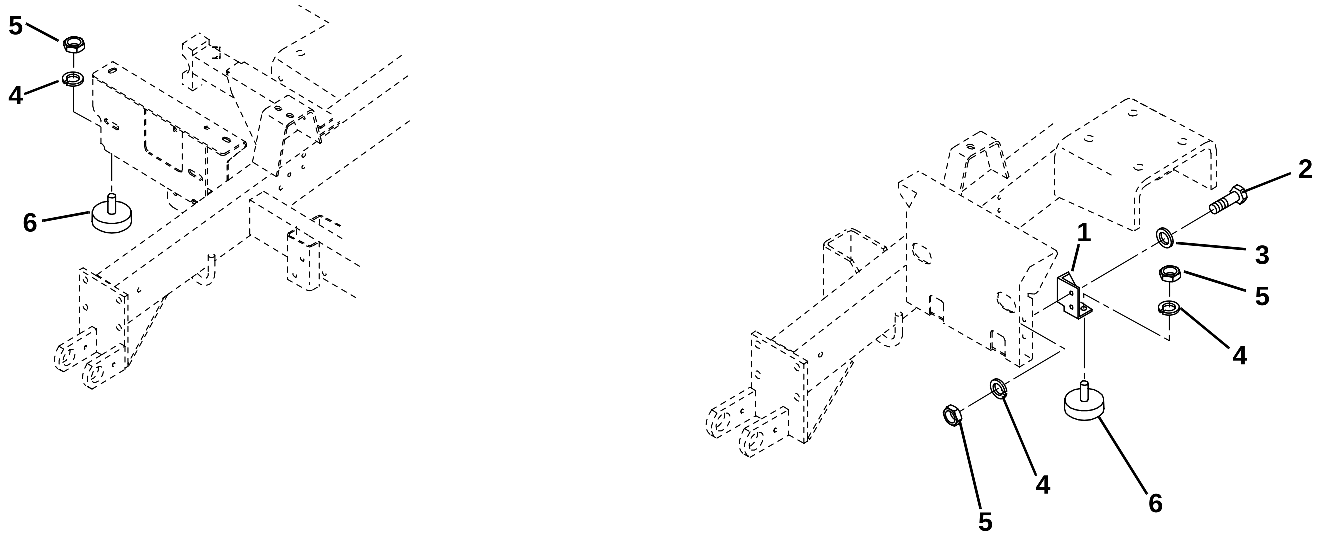


| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 131717 | 8 | Yoke, Caster Wheel Spindle | |
| 2 | 453022 | AR | Flat Washer, 3/4 x 1/8 Thick | |
| 3 | 3003207 | 10 | Shaft, Caster Wheel | |
| 4 | 460056 | 10 | Cotter Pin, 3/16 x 2” | |
| 5 | 403578 | 10 | Screw, #10-24 x 1” Hex Head | |
| 6 | 446118 | 10 | Lockwasher, #10 | |
| 7 | 444310 | 10 | Nut, #10-24 Hex | |
| | 1003769 | 10 | Caster Wheel, 11 x 4 x 5 | |
| 8 | 550346 | 1 | • Tire, 11 x 4 - 5NHS 4 Ply | |
| 9 | 363233 | 1 | • Valve Stem | |
| 10 | 5002959 | 1 | • Wheel and Bearing | |
| 11 | 5002583 | 2 | • • Bearing, Roller | |
| 12 | 553720 | 2 | • • Bushing, Flanged | |
| 13 | 365772 | 32 | Spacer, Cutting Height | |
| 14 | 62464-4A | AR | Washer | |
| 15 | 366593 | 24 | Spacer, Caster Wheel | |
| 16 | 3004894 | 10 | Pin, Klick Type | |
| 17 | 307374 | AR | Flat Washer, 3/4 x 5/64 Thick | |

> Change from previous revision

## 50.1 Deck Bumper

Serial No. 69158 All

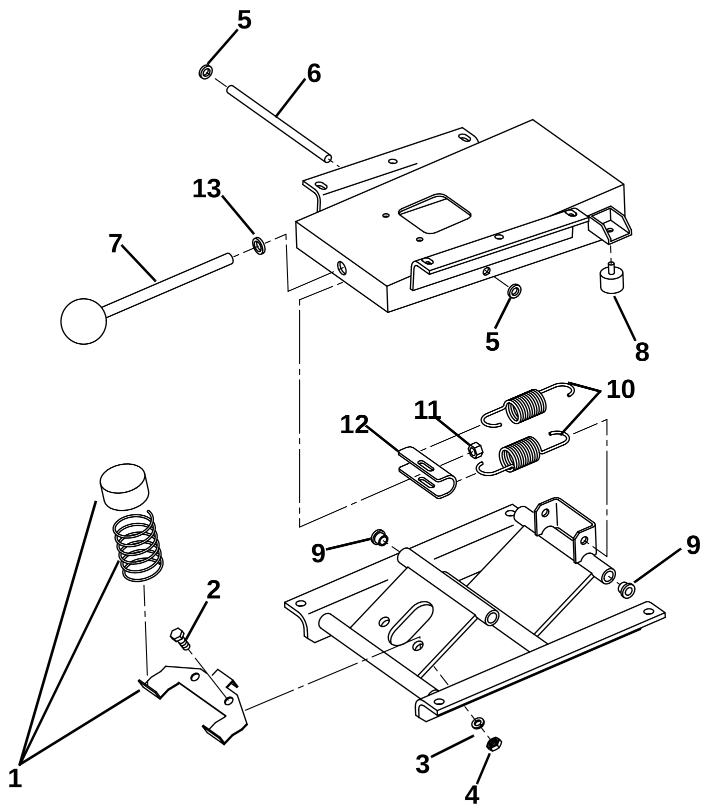



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 3003427 | 1 | Bracket, Deck Bumper | |
| 2 | 400262 | 2 | Screw, 3/8-16 x 1” Hex Head | |
| 3 | 453011 | 2 | Flat Washer, 3/8 | |
| 4 | 446142 | 4 | Lockwasher, 3/8 Heavy | |
| 5 | 443110 | 4 | Nut, 3/8-16 Hex | |
| 6 | 361723 | 2 | Stop, Rubber | |

> Change from previous revision

## 51.1 Seat Suspension

**Part Number 66170**



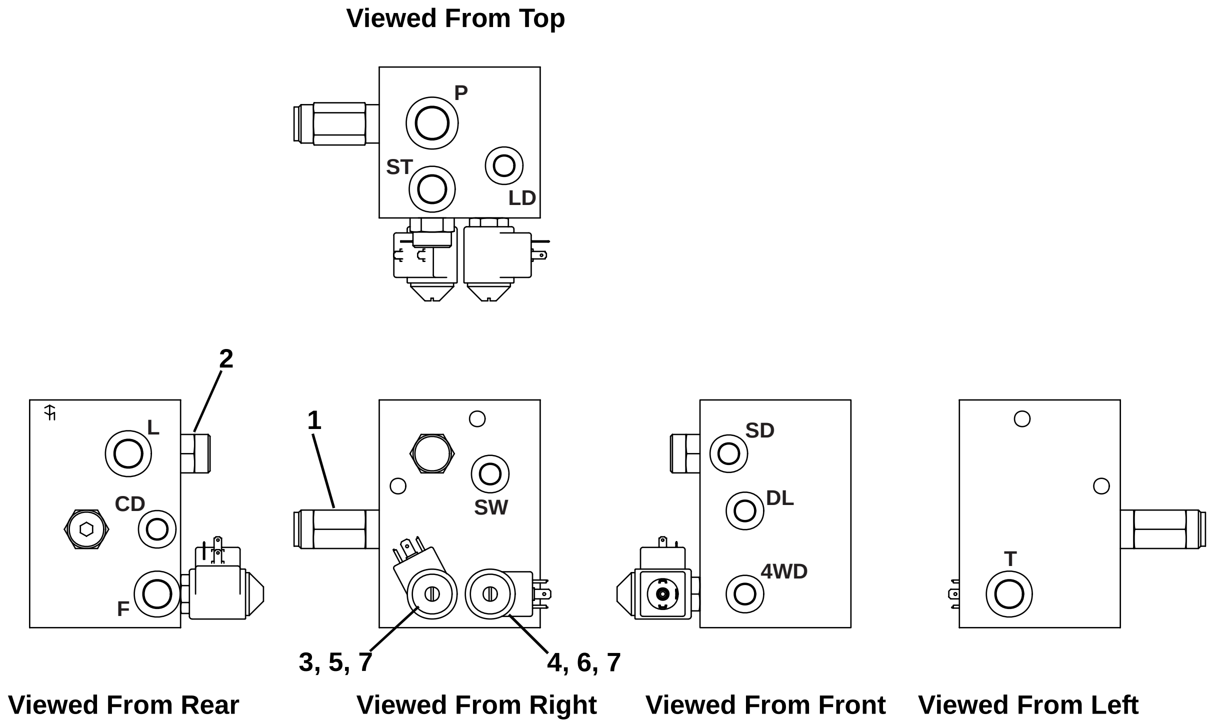

| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5002620 | 1 | Spring Kit | |
| 2 | 400186 | 1 | Screw, 5/16-18 x 7/8” Hex Head | |
| 3 | 446136 | 1 | Lockwasher, 5/16 Heavy | |
| 4 | 443106 | 1 | Nut, 5/16-18 Hex | |
| 5 | 554718 | 4 | Nut, Push | |
| 6 | 554717 | 2 | Shaft, Pivot | |
| 7 | 554715 | 1 | Knob, Spring Tension | |
| 8 | 554714 | 2 | Bumper, Rear Downstop | |
| 9 | 554720 | 4 | Bearing, Sleeve | |
| 10 | 554719 | 2 | Spring, Extension | |
| 11 | 444762 | 1 | Locknut, 3/8-16 Center | |
| 12 | 554716 | 1 | Hanger, Spring | |
| 13 | 452010 | 1 | Flat Washer, 7/16 | |
| | N/S | 1 | Mounting Hardware Pack | Not Shown, See 4.1 |

> Change from previous revision

## 52.1 Control Valve

Serial No. 69158 All

**Part Number 1004555**

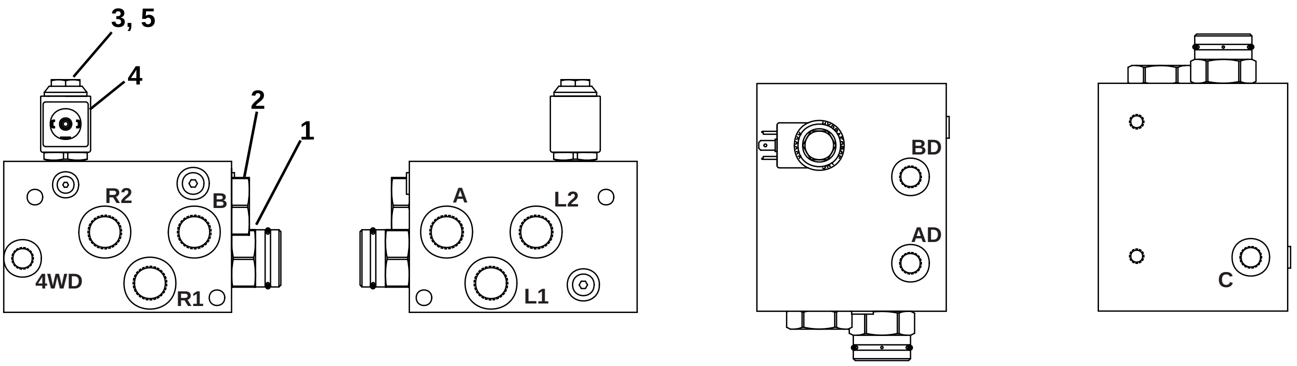



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5003150 | 1 | Relief Valve, 115 psi | |
| | 555861 | 1 | • Seal Kit, Relief Valve | |
| 2 | 556845 | 1 | Priority Valve, 4.5 GPM | |
| | 556856 | 1 | • Seal Kit, Priority Valve | |
| 3 | 556847 | 1 | Solenoid Valve, Differential Lock | |
| | 556858 | 1 | • Seal Kit, Solenoid Valve | |
| 4 | 556847 | 1 | Solenoid Valve, 4WD | |
| | 556858 | 1 | • Seal Kit, Solenoid Valve | |
| 5 | 556849 | 1 | Coil, Differential Lock | **REFERENCE K13, See 67.1** |
| 6 | 556849 | 1 | Coil, 4WD | **REFERENCE K14, See 67.1** |
| 7 | 2811253 | 2 | Nut, Coil | |

> Change from previous revision

# 53.1 4WD Valve

**Part Number 1003025**




Viewed From Right    Viewed From Left    Viewed From Top    Viewed FromBottom

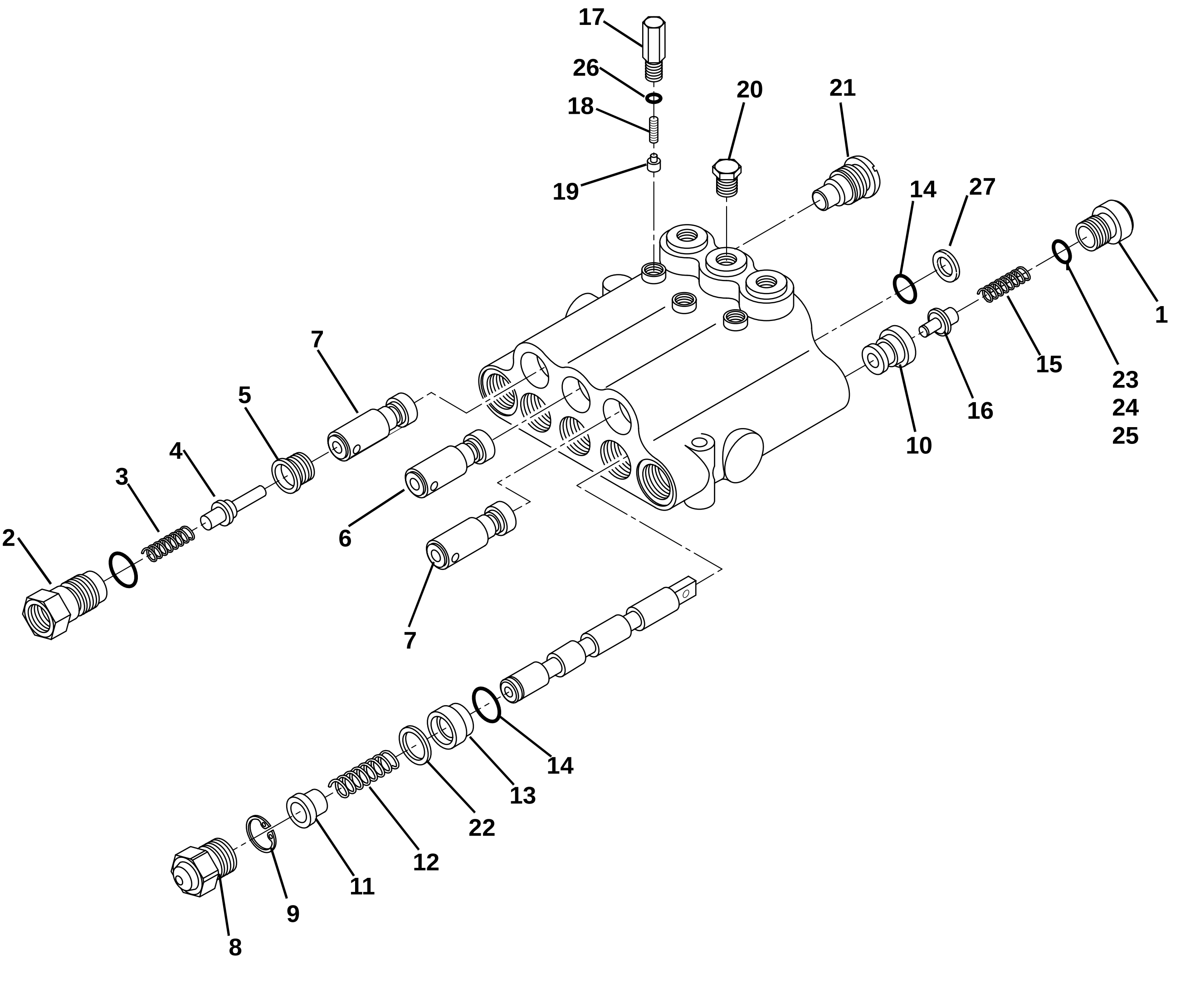
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 556897 | 1 | Spool Valve | |
| | 5003581 | 1 | • Seal Kit | |
| 2 | 558038 | 1 | Check Valve | |
| | 5003581 | 1 | • Seal Kit | |
| 3 | 556847 | 1 | Solenoid Valve, 4WD Reverse | |
| | 5003578 | 1 | • Seal Kit, Solenoid Valve | |
| 4 | 556849 | 1 | Coil | **REFERENCE K16, See 67.1** |
| 5 | 2811253 | 1 | Nut, Coil | |

> Change from previous revision

## 54.1 Lift Valve

Serial No. 69158 All

**Part Number 1001802**



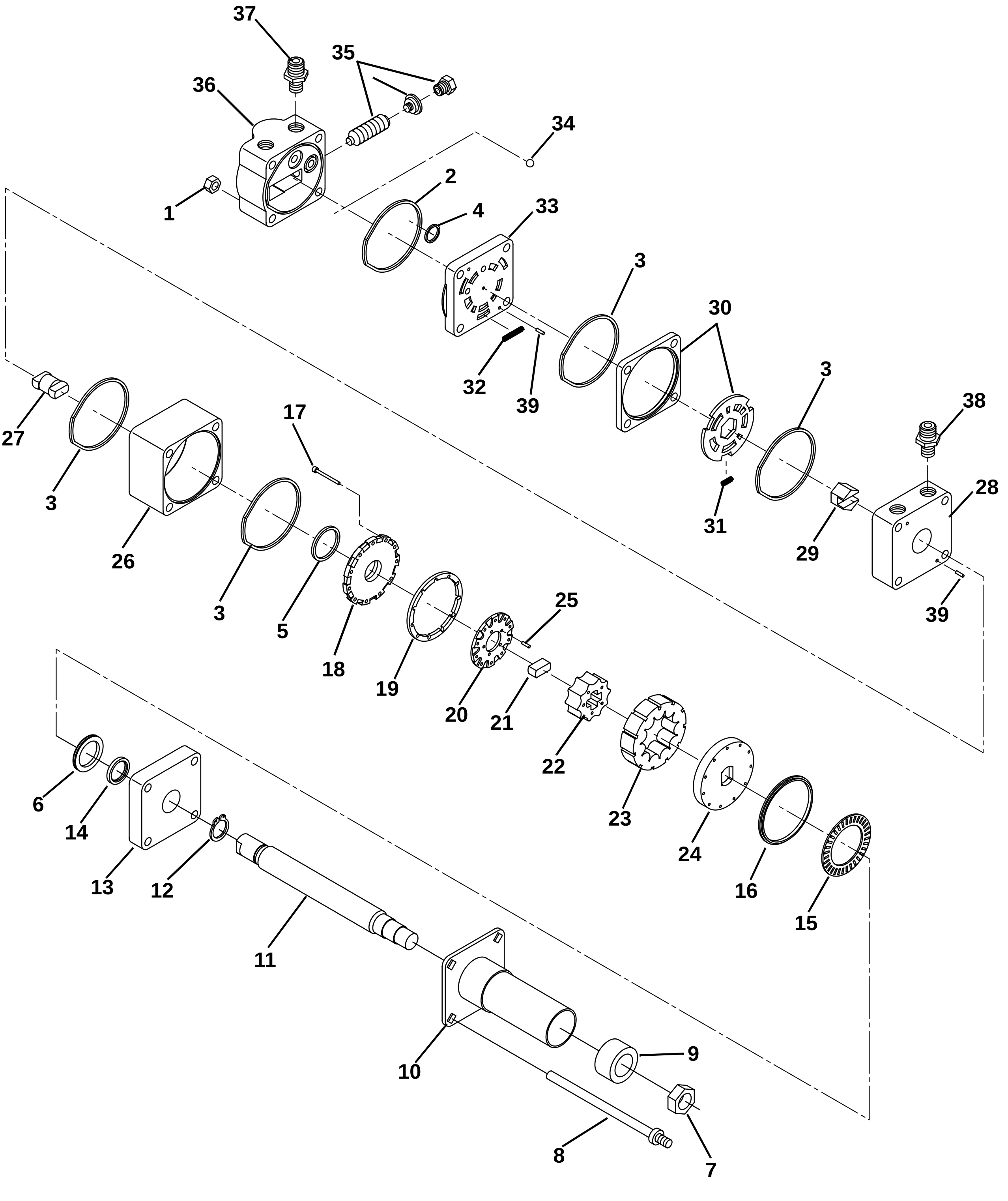
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 558005 | 1 | Plug | |
| 2 | 500745 | 3 | Plug | |
| 3 | 545914 | 3 | Spring | |
| ● 4 | N/S | 3 | Poppet | |
| 5 | 500736 | 3 | Seat | |
| 6 | 5001599 | 1 | Plunger | |
| 7 | 5001603 | 2 | Plunger | |
| 8 | 558004 | 3 | Cap | |
| 9 | 558007 | 3 | Retaining Ring | |
| 10 | 5001613 | 1 | Seat | |
| 11 | 558011 | 3 | Spacer | |
| 12 | 5001616 | 3 | Spring | |
| 13 | 545921 | 3 | Bushing | |
| ● 14 | N/S | 6 | O-Ring | |
| 15 | 5001614 | 1 | Spring | |
| 16 | 5001615 | 1 | Poppet | |
| | 5001612 | 3 | Detent Repair Kit | |
| 17 | N/S | 1 | • Plug, Plunger Detent | |
| 18 | N/S | 1 | • Spring, Detent | |
| 19 | N/S | 1 | • Plunger, Detent | |
| 20 | 351122 | 3 | Plug | |
| 21 | 500750 | 3 | Plug | |
| 22 | 558008 | 3 | Washer | |
| 23 | 545925 | AR | Shim | |
| 24 | 545926 | AR | Shim | |
| 25 | 545927 | AR | Shim | |
| 26 | 546112 | AR | Disc | |
| 27 | 5001617 | 3 | Wiper Seal | |
| ● | 558010 | 1 | Seal Repair Kit | |

> Change from previous revision

## 55.1 Steering Valve

Serial No. 69158 All

**Part Number 1004867**



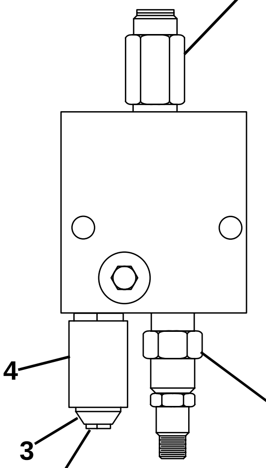
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 443108 | 4 | Nut, 5/16-24 Hex | |
| | 557738 | 1 | Seal Kit | |
| 2 | N/S | 1 | • Seal, O-Ring | |
| 3 | N/S | 4 | • Seal, O-RIng | |
| 4 | N/S | 4 | • Seal, O-Ring | |
| 5 | N/S | 1 | • Seal, Commutator | |
| 6 | N/S | 1 | • Face Seal | |
| 7 | 5000431 | 1 | Nut, 13/16-20 Hex Jam | |
| 8 | N/S | 4 | Special Bolt | |
| | 1004867-03 | 1 | Jacket Tube Kit | |
| 9 | N/S | 1 | • Bushing | |
| 10 | N/S | 1 | • Jacket | |
| 11 | N/S | 1 | • Shaft | |
| 12 | N/S | 1 | • Retaining Ring | |
| 13 | N/S | 1 | Upper Cover Plate | |
| 14 | 554857 | 1 | Seal, Spacer | |
| 15 | 554856 | 1 | Thrust Bearing | |
| 16 | 554855 | 1 | Spacer, Thrust Bearing | |
| | 1004867-01 | 1 | Metering Assembly Kit | |
| 17 | N/S | 11 | • Screw, Socket Head | |
| 18 | N/S | 1 | • Commutator Cover | |
| 19 | N/S | 1 | • Commutator Ring | |
| 20 | N/S | 1 | • Commutator | |
| 21 | N/S | 1 | • Spacer | |
| 22 | N/S | 1 | • Rotor | |
| 23 | N/S | 1 | • Stator | |
| 24 | N/S | 1 | • Drive Plate | |
| 25 | N/S | 5 | • Needel Roller | |
| 26 | N/S | 1 | Metering Ring | |
| 27 | 551105 | 1 | Drive Link | |
| 28 | N/S | 1 | Isolation Manifold | |
| 29 | 503387 | 1 | Hex Drive | |
| 30 | 503398 | 1 | Valve and Ring Assembly | |
| | 502924 | 1 | Spring Kit | |
| 31 | N/S | 3 | • Spring, Shaft Side | |
| 32 | N/S | 3 | • Spring, Port Side | |
| 33 | N/S | 1 | Port Manifold | |
| 34 | N/S | 1 | Ball, 9/32 | |
| 35 | 557733 | 1 | Relief Valve | |
| 36 | N/S | 1 | Port Cover | |
| 37 | 339983 | 2 | Adapter, Straight | |
| 38 | 339979 | 2 | Adapter, Straight | |
| 39 | 520925 | 1 | Needle Roller Kit | Includes Item 25 |

> Change from previous revision

## 56.1 Deck Valve

Serial No. 69158 All

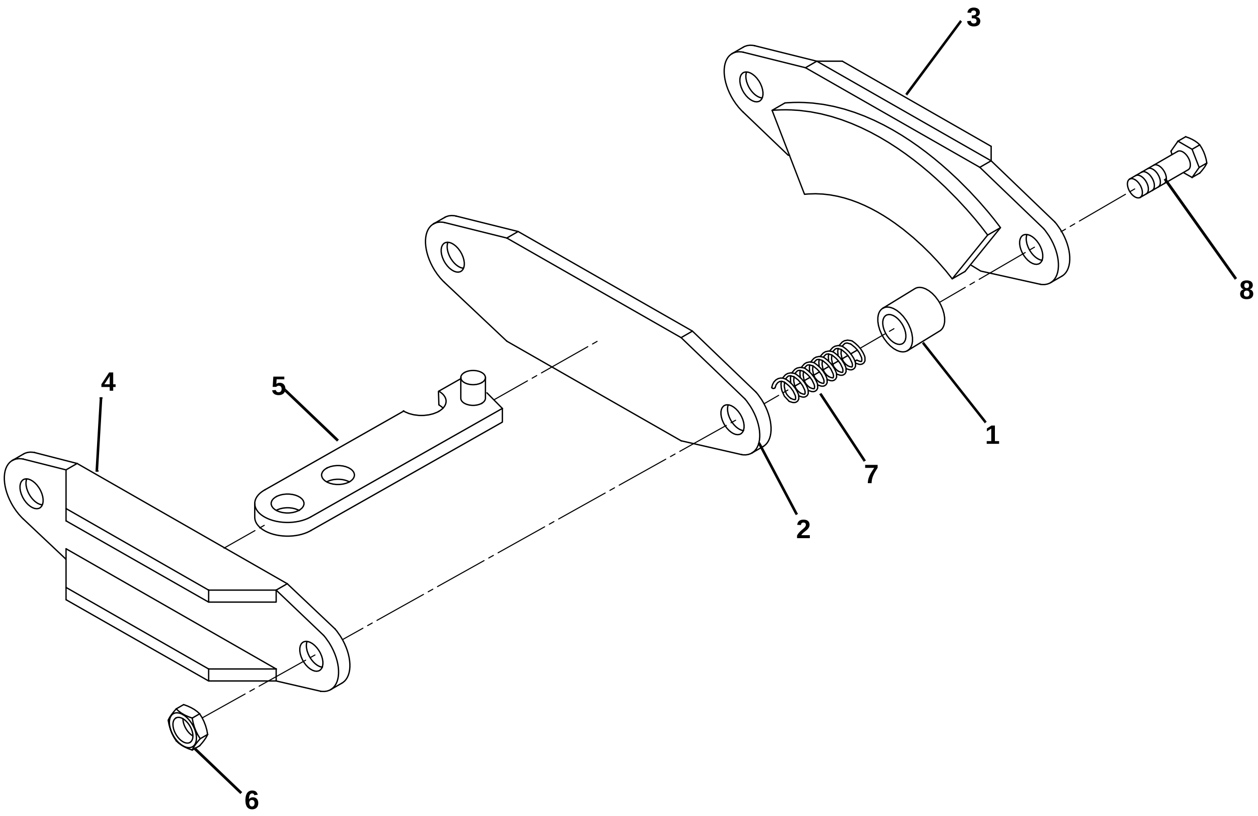
**Part Number 1002499**




| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5002911 | 1 | Relief Valve, 3000 psi | |
| | 5003579 | 1 | • Seal Kit, Relief Valve | |
| 2 | 5002912 | 1 | Relief Valve, 430 psi | |
| | 5003554 | 1 | • Seal Kit, Relief Valve | |
| 3 | 5002913 | 1 | Solenoid Valve | |
| | 5003579 | 1 | • Seal Kit | |
| 4 | 5001354 | 1 | Coil | **REFERENCE K10, K11, K12, See 67.1** |
| 5 | 2811269 | 1 | Nut, Coil | |

> Change from previous revision

## 57.1 Parking Brake
**503308**



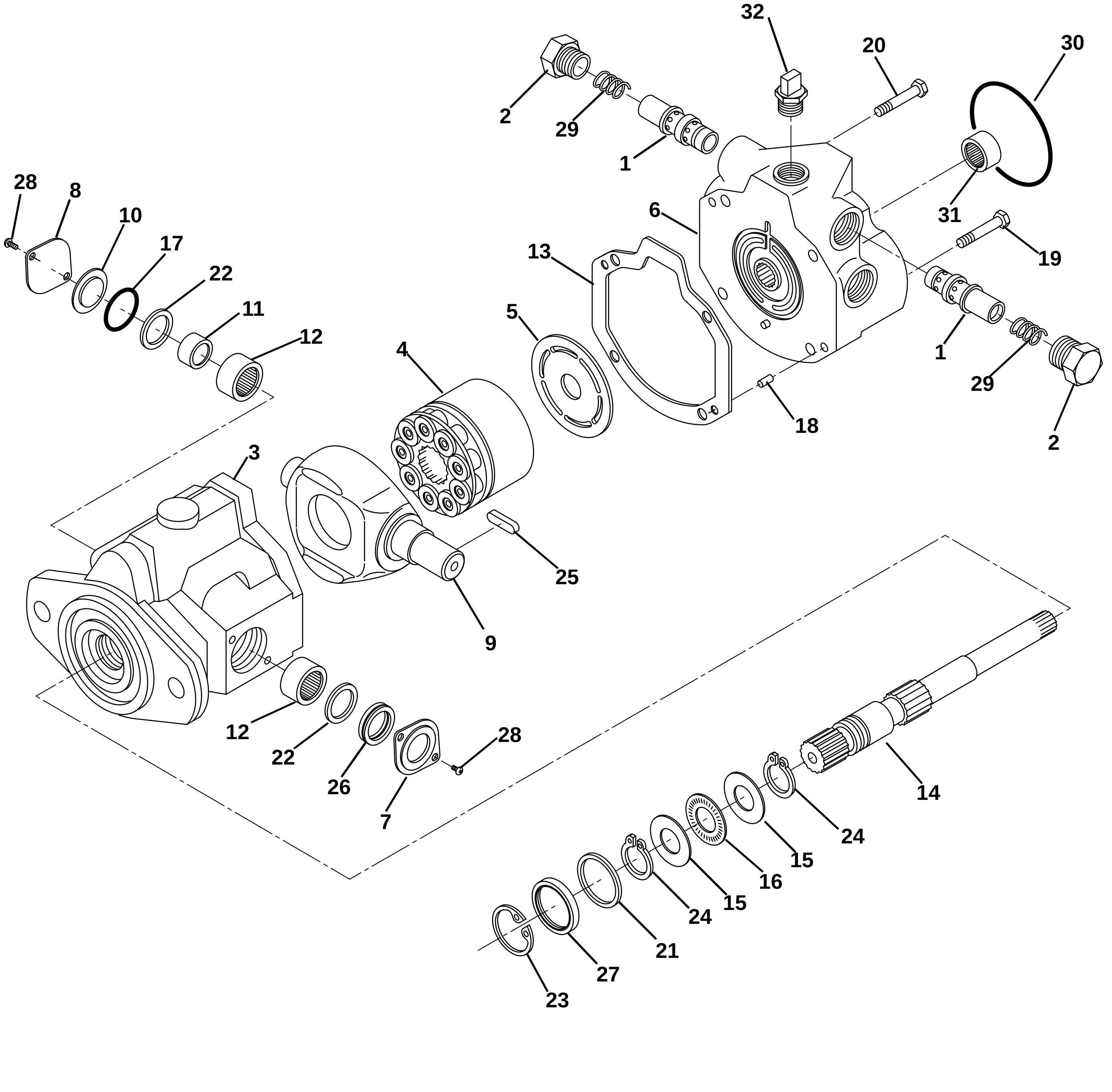

| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 554579 | 2 | Spacer, Brake | |
| 2 | 503296 | 1 | Stud Plate with Lining | |
| 3 | 503295 | 1 | Rib Plate with Lining | |
| 4 | 549441 | 1 | V-Plate | |
| 5 | 502517 | 1 | Cam Lever, Brake | |
| 6 | 590259 | 2 | Locknut, 3/8-24 Center | |
| 7 | 546131 | 2 | Spring, Brake Return | |
| 8 | 590260 | 2 | Screw, 3/8-24 x 2-1/4” Hex Head | |

> Change from previous revision

## 58.1 Traction Pump

Serial No. 69158 All

**Part Number 117083**



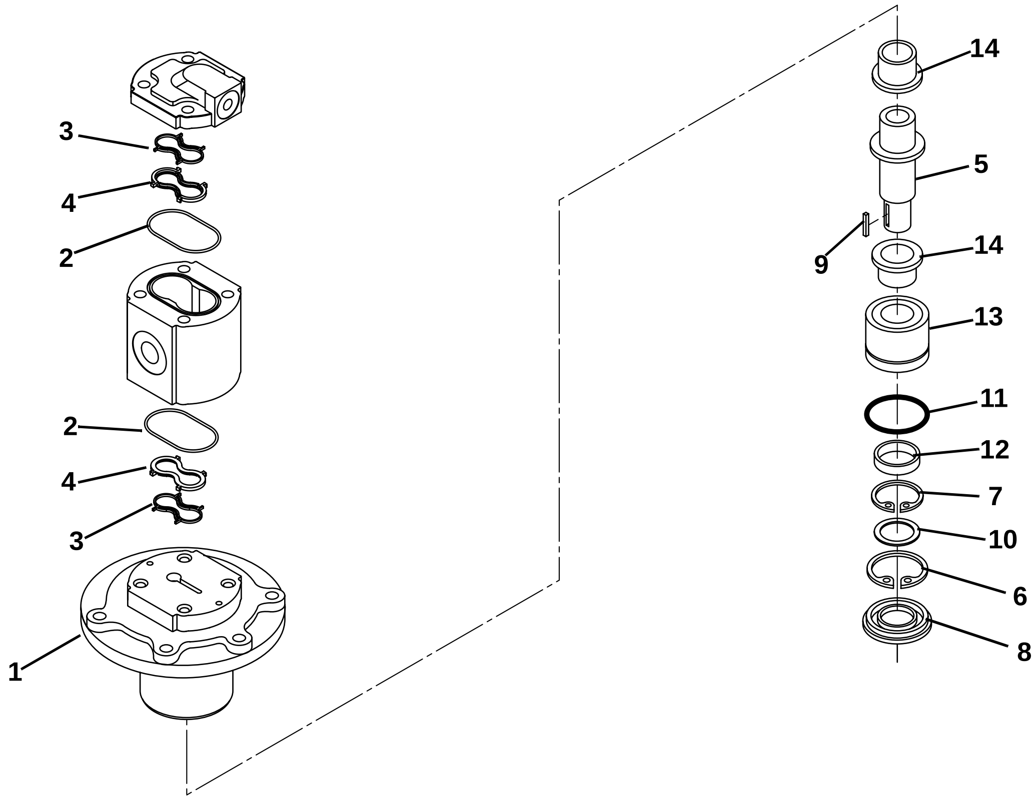
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 557445 | 2 | Relief Valve | |
| 2 | 557444 | 2 | Plug | |
| 3 | 557443 | 1 | Housing | |
| 4 | 557442 | 1 | Rotating Kit | |
| 5 | 557441 | 1 | Valve Plate | |
| 6 | 557440 | 1 | Backplate | |
| 7 | 557439 | 1 | Seal, Cover | |
| 8 | 557438 | 1 | Trunnion Cover | |
| 9 | 557437 | 1 | Cam Plate | |
| 10 | 557436 | 1 | Inner Race | |
| 11 | 557435 | 1 | O-RIng Cover | |
| 12 | 557434 | 2 | Needle Bearing | |
| ● 13 | N/S | 1 | Gasket, Housing | |
| 14 | 557433 | 1 | Drive Shaft | |
| 15 | 557426 | 2 | Thrust Race | |
| 16 | 557425 | 1 | Thrust Bearing | |
| ● 17 | N/S | 1 | O-RIng | |
| 18 | 557454 | 2 | Dowel Pin | |
| 19 | 557453 | 2 | Screw, Bottom | |
| 20 | 557452 | 2 | Screw, Top | |
| 21 | 557430 | 1 | Washer | |
| 22 | 557451 | 2 | Washer | |
| ● 23 | N/S | 1 | Retaining Ring | |
| ● 24 | N/S | 2 | Retaining Ring | |
| 25 | 557450 | 1 | Key, Trunnion | |
| ● 26 | N/S | 1 | Shaft Seal, Viton | |
| 27 | 557656 | 1 | Shaft Seal, Viton | |
| 28 | 557449 | 4 | Screw | |
| 29 | 557448 | 2 | Spring | |
| 30 | 557447 | 1 | O-RIng | |
| 31 | 338938 | 1 | Coupler | |
| 32 | 557666 | 1 | Tow Valve | |
| ● | 557446 | 1 | Seal Kit | |

> Change from previous revision

## 59.1 Deck Motor

Serial No. 69158 All

**Part Numbers 2721180 and 2721181**

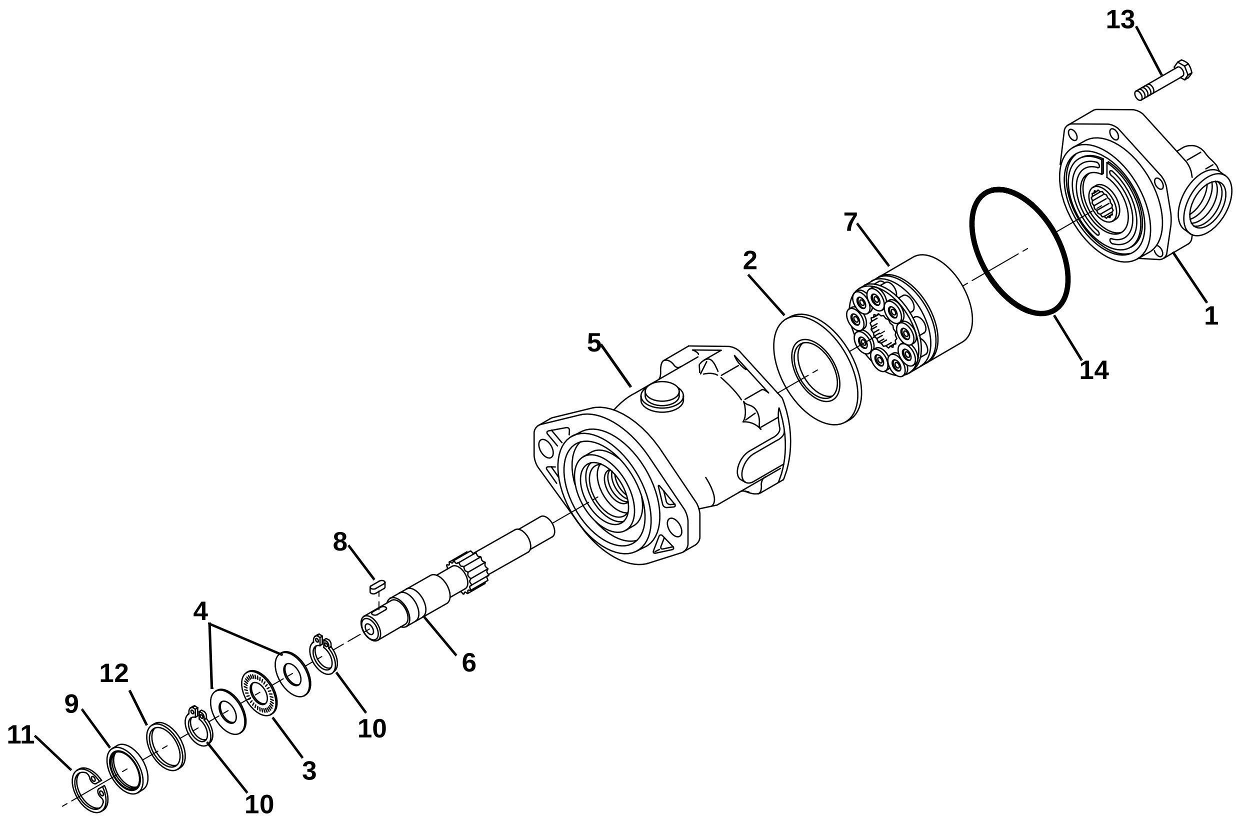



| | Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|---|
| | 1 | 557515 | 1 | Spindle | |
| ● | 2 | N/S | 1 | O-RIng | |
| ● | 3 | N/S | 2 | Back Up Seal | |
| ● | 4 | N/S | 2 | Bushing Seal | |
| | 5 | 557518 | 1 | Shaft, Spindle | |
| ● | 6 | 557520 | 1 | Snap RIng, Large | |
| ● | 7 | 557521 | 1 | Snap RIng, Small | |
| ● | 8 | 557376 | 1 | Guard, Motor Shaft | |
| | 9 | 557523 | 1 | Key, Shaft | |
| ● | 10 | 557517 | 1 | Washer, Support | |
| | | 5002714 | 1 | O-RIng Seal Kit | |
| ● | 11 | 5002716 | 1 | • O-RIng | |
| ● | 12 | 5002715 | 1 | • Seal | |
| | | 557522 | 1 | Bearing, Spindle | |
| ● | 13 | 5002718 | 1 | • Bearing | |
| ● | 14 | 5002717 | 2 | • Flanged Bushing | |
| | | | | | |
| ● | | 557519 | 1 | Seal Kit | |

> Change from previous revision

## 60.1 Front Axle Motor

**Part Number 117075**



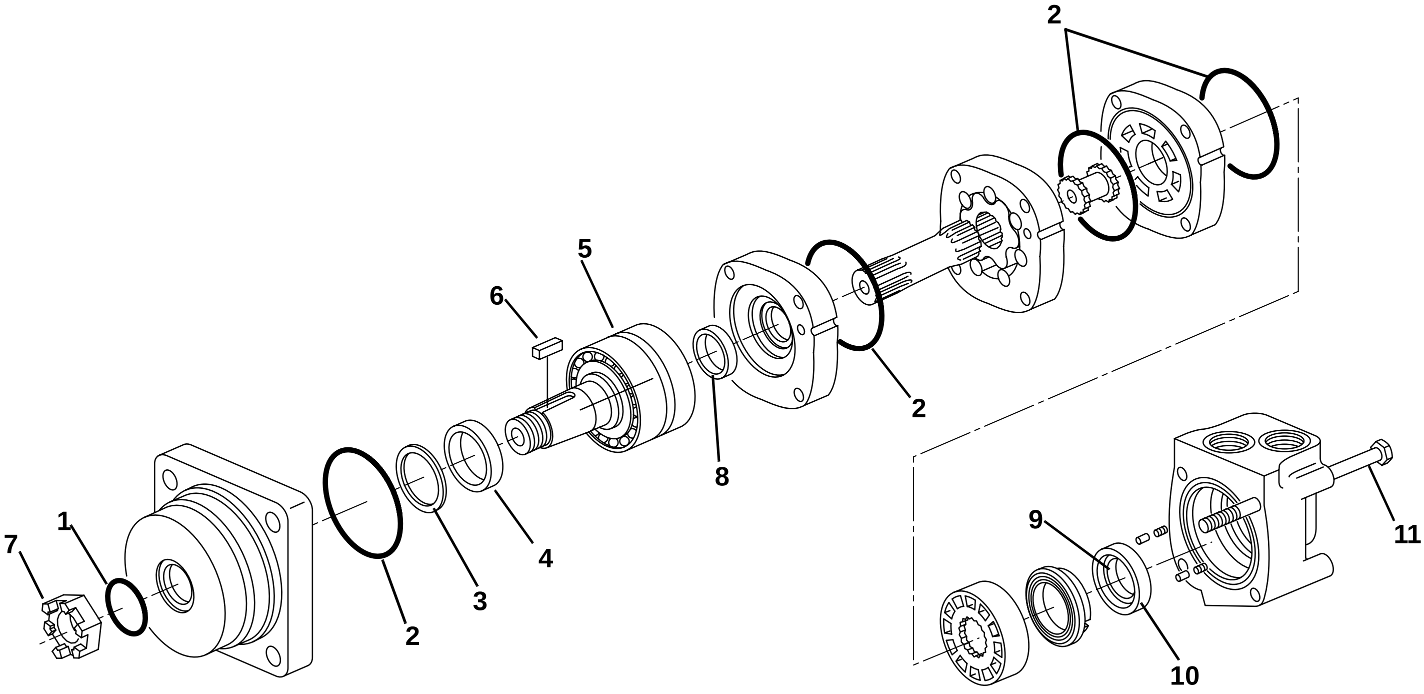

| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 557423 | 1 | Backplate Assembly | |
| 2 | 557424 | 1 | Camplate Insert | |
| 3 | 557425 | 1 | Thrust Bearing | |
| 4 | 557426 | 2 | Thrust Race | |
| 5 | 557427 | 1 | Housing | |
| 6 | 557428 | 1 | Drive Shaft | |
| 7 | 557429 | 1 | Rotating Kit | |
| 8 | 554756 | 1 | Key, 1/4 x 1/4 x 31/32” | |
| ● 9 | N/S | 1 | Shaft Seal | |
| ● 10 | N/S | 2 | Retaining Ring, 1-1/8” External | |
| ● 11 | N/S | 1 | Retaining RIng, 2” Internal | |
| 12 | 557430 | 1 | Washer | |
| 13 | 557431 | 6 | Screw, 5/16-18 x 1-1/2” Hex Head | |
| ● 14 | N/S | 1 | O-RIng, 3/32 x 4” I.D. | |
| ● | 557432 | 1 | Seal Kit | |

> Change from previous revision

## 61.1 Rear Wheel Motor

Serial No. 69158 All

**Part Number 5003218**

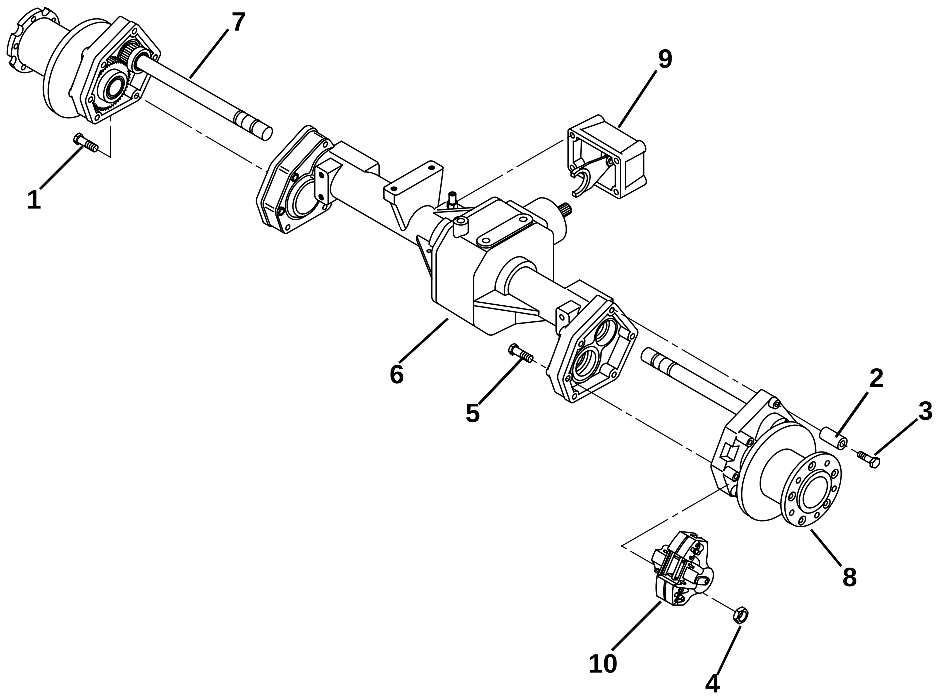



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| ● 1 | N/S | 1 | Seal Exclusion | |
| ● 2 | N/S | 4 | Seal, 3" I.D. | |
| ● 3 | N/S | 1 | Back-Up Ring | |
| ● 4 | N/S | 1 | Shaft Seal | |
| 5 | 5003384 | 1 | Shaft and Bearing Kit | |
| 6 | 554780 | 1 | Key | |
| 7 | 554779 | 1 | Nut | |
| ● 8 | N/S | 1 | Shaft, Face Seal | |
| ● 9 | N/S | 1 | Inner Face Seal | |
| ● 10 | N/S | 1 | Outer Face Seal | |
| 11 | 556450 | 4 | Bolt | |
| ● | 5003385 | 1 | Seal Kit | |

> Change from previous revision

## 62.1 Front Axle

**Part Number 1003327**



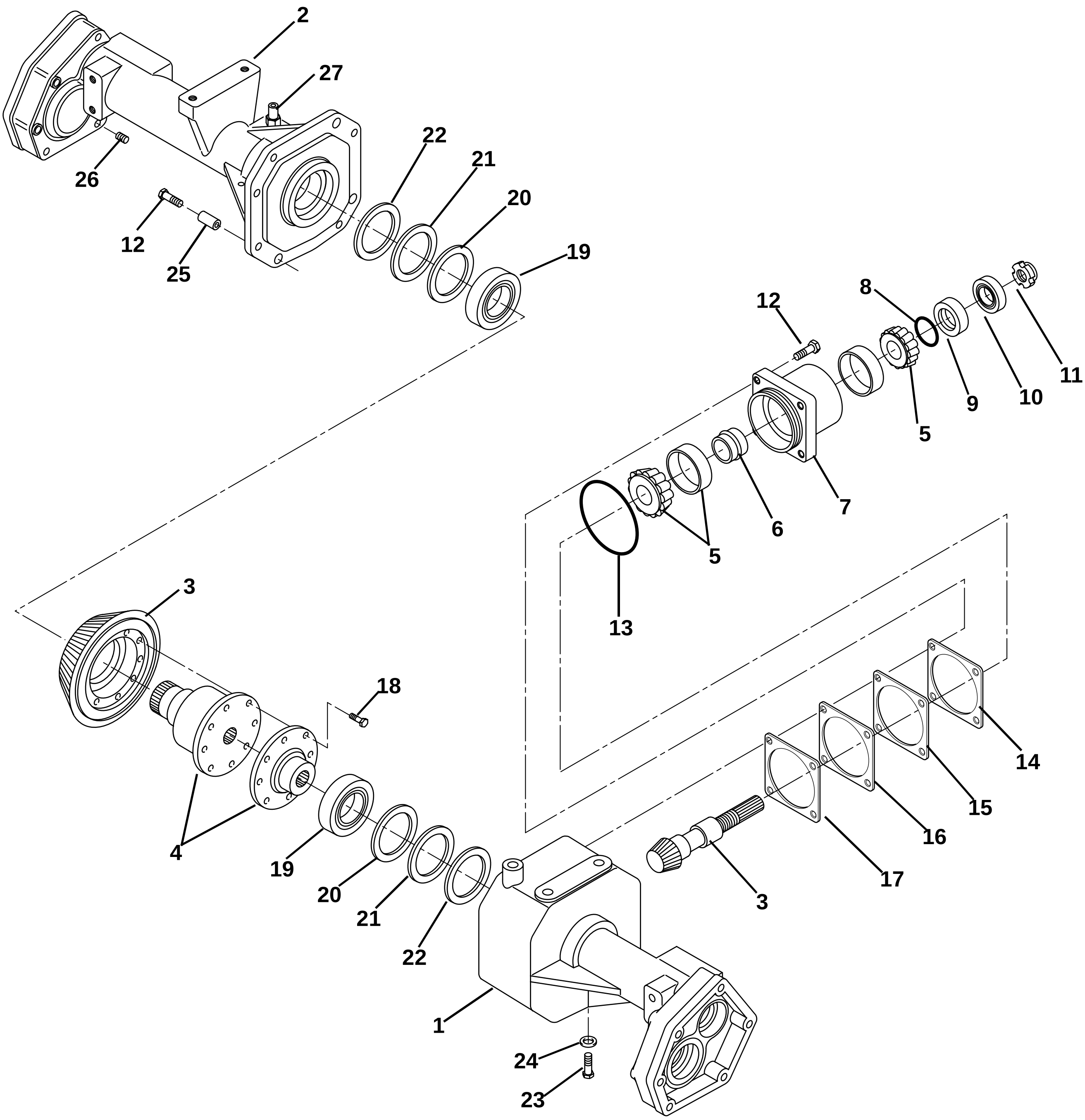

| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 556844 | 4 | Screw, M10 x 35 mm Hex Head | |
| 2 | 592665 | 4 | Dowel, Sleeve | |
| 3 | 556901 | 4 | Screw, M10 x 45 mm Hex Head | |
| 4 | 556902 | 4 | Nut, M10 Hex | |
| 5 | 556846 | 4 | Screw, M10 x 110 mm Hex Head | |
| 6 | N/S | 1 | Differential Assembly | See 63.1 |
| 7 | N/S | 1 | Right Side Drive Axle Reducer | See 64.1 |
| 8 | N/S | 1 | Left Side Drive Axle Reducer | See 64.1 |
| 9 | N/S | 1 | Differential Lock Assembly | See 65.1 |
| 10 | 556890 | 2 | Brake Caliper Assembly | See 66.1 |

> Change from previous revision

## 63.1 Differtial Assembly

Serial No. 69158 All

**Part of 1003327**



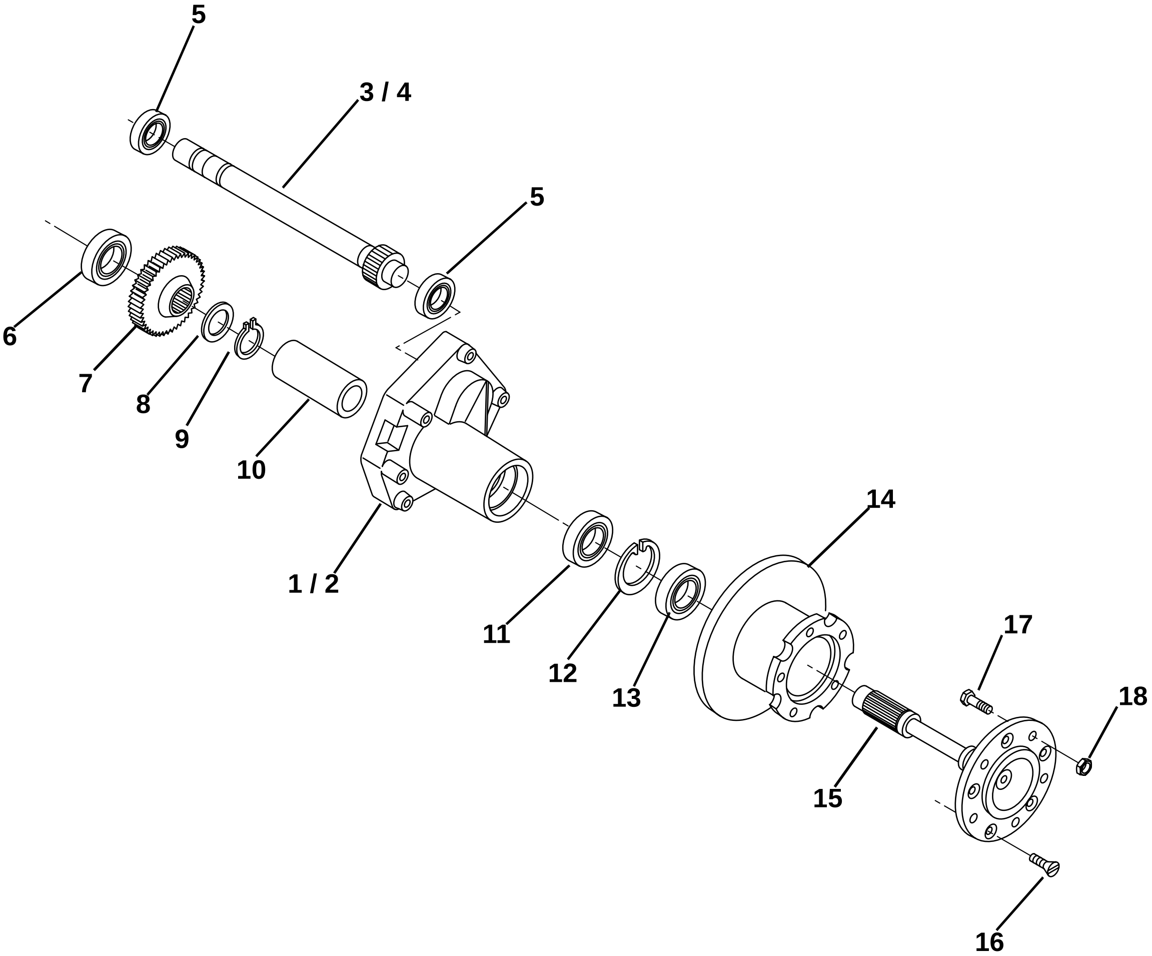
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 556889 | 1 | Housing, Left Side Differential | |
| 2 | 556888 | 1 | Housing, Right Side Differential | |
| 3 | 556871 | 1 | Bevel Gear and Pinion | Matched Set |
| 4 | 592548 | 1 | Differential | |
| 5 | 556859 | 2 | Tapered Bearing, Cup and Cone | |
| 6 | 556873 | 1 | Spacer | |
| 7 | 556883 | 1 | Housing, Input Shaft Bearing | |
| 8 | 556852 | 1 | O-RIng | |
| 9 | 556854 | 1 | Seal, Inner Input Shaft | |
| 10 | 556874 | 1 | Seal, Outer Input Shaft | |
| 11 | 556896 | 1 | Nut, M25-1.5 Elastic Stop | |
| 12 | 593000 | 12 | Screw, M10 x 30 mm Hex Head | |
| 13 | 556853 | 1 | O-Ring | |
| 14 | 556864 | AR | Shim | Shim as required to set Bevel Pinion and Ring Gear Clearance. See HR-5111 Service Manual |
| 15 | 556865 | AR | Shim | |
| 16 | 556866 | AR | Shim | |
| 17 | 556867 | AR | Shim | |
| 18 | 553407 | 8 | Screw, M10 x 25 mm Hex Head | |
| 19 | 592302 | 2 | Bearing, Ball | |
| 20 | 592405 | AR | Shim | Shim as required to set Pinion and Ring Gear Backlash Adjustment. See HR-5111 Service Manual |
| 21 | 592406 | AR | Shim | |
| 22 | 592407 | AR | Shim | |
| 23 | 593047 | 1 | Plug, M18-1.5 Drain | |
| 24 | 553516 | 1 | Seal | |
| 25 | 562665 | 2 | Dowel, Sleeve | |
| 26 | 556899 | 2 | Plug | |
| 27 | 556895 | 1 | Breather | |

> Change from previous revision

## 64.1 Drive Axle Reducer

Serial No. 69158 All

**Part of 1003327 (Left Side Shown)**



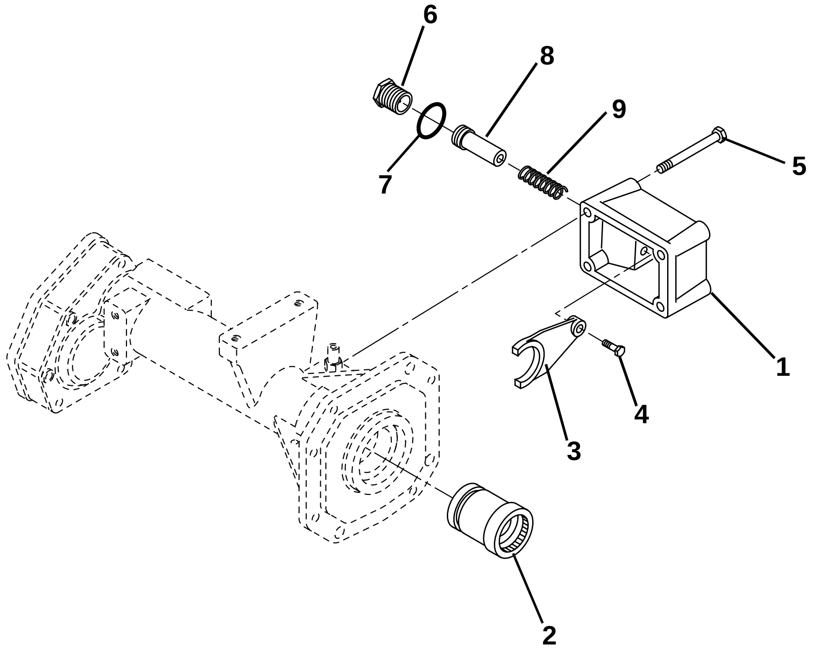
| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 5002782 | 1 | Housing, Left Side Reducer | |
| 2 | 5002783 | 1 | Housing, Right Side Reducer | Not Shown |
| 3 | 556882 | 1 | Shaft, Left Side Reducer | |
| 4 | 556881 | 1 | Shaft, Right Side Reducer | Not Shown |
| 5 | 590502 | 4 | Bearing, Ball | |
| 6 | 556857 | 2 | Bearing, Ball | |
| 7 | 556880 | 2 | Gear, Reducer | |
| 8 | 592422 | 2 | Washer | |
| 9 | 592370 | 2 | Retaining Ring | |
| 10 | 5002780 | 2 | Spacer, Tube | |
| 11 | 5002784 | 2 | Bearing, Ball | |
| 12 | 592376 | 2 | Retaining Ring | |
| 13 | 556855 | 2 | Seal | |
| 14 | 556884 | 2 | Brake Disk | |
| 15 | 5002781 | 2 | Pinion, Drive Axle | |
| 16 | 556900 | 10 | Screw, M10 x 20 mm Flat Head | |
| 17 | 556848 | 10 | Wheel Bolt | |
| 18 | 556891 | 10 | Nut, M14-1.5 Lug | |

> Change from previous revision

## 65.1 Differential Lock Assembly

Serial No. 69158 All

**Part of 1003327**



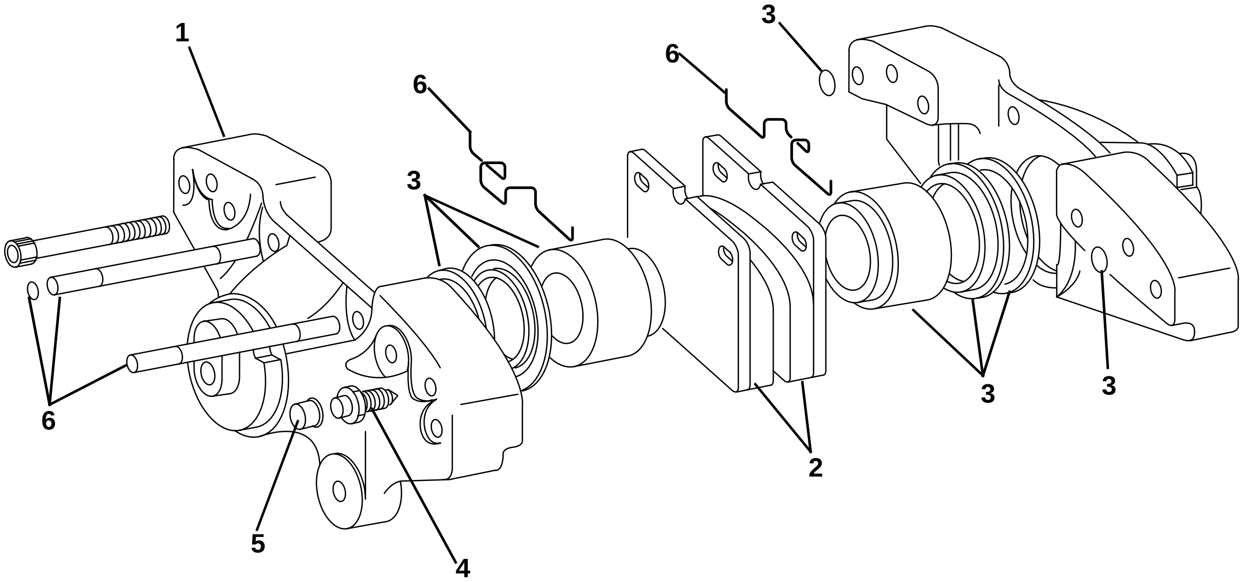

| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 556885 | 1 | Housing, Differential Lock | |
| 2 | 556870 | 1 | Collar, Differential Lock | |
| 3 | 556875 | 1 | Fork | |
| 4 | 592993 | 1 | Screw, M8 x 20 mm Hex Head | |
| 5 | 556843 | 4 | Screw, M10 x 80 mm Hex Head | |
| 6 | 556877 | 1 | Cylinder | |
| 7 | 556851 | 1 | O-RIng | |
| 8 | 556876 | 1 | Piston | |
| 9 | 556872 | 1 | Spring | |

> Change from previous revision

## 66.1 Brake Caliper



**Part of 1003327**

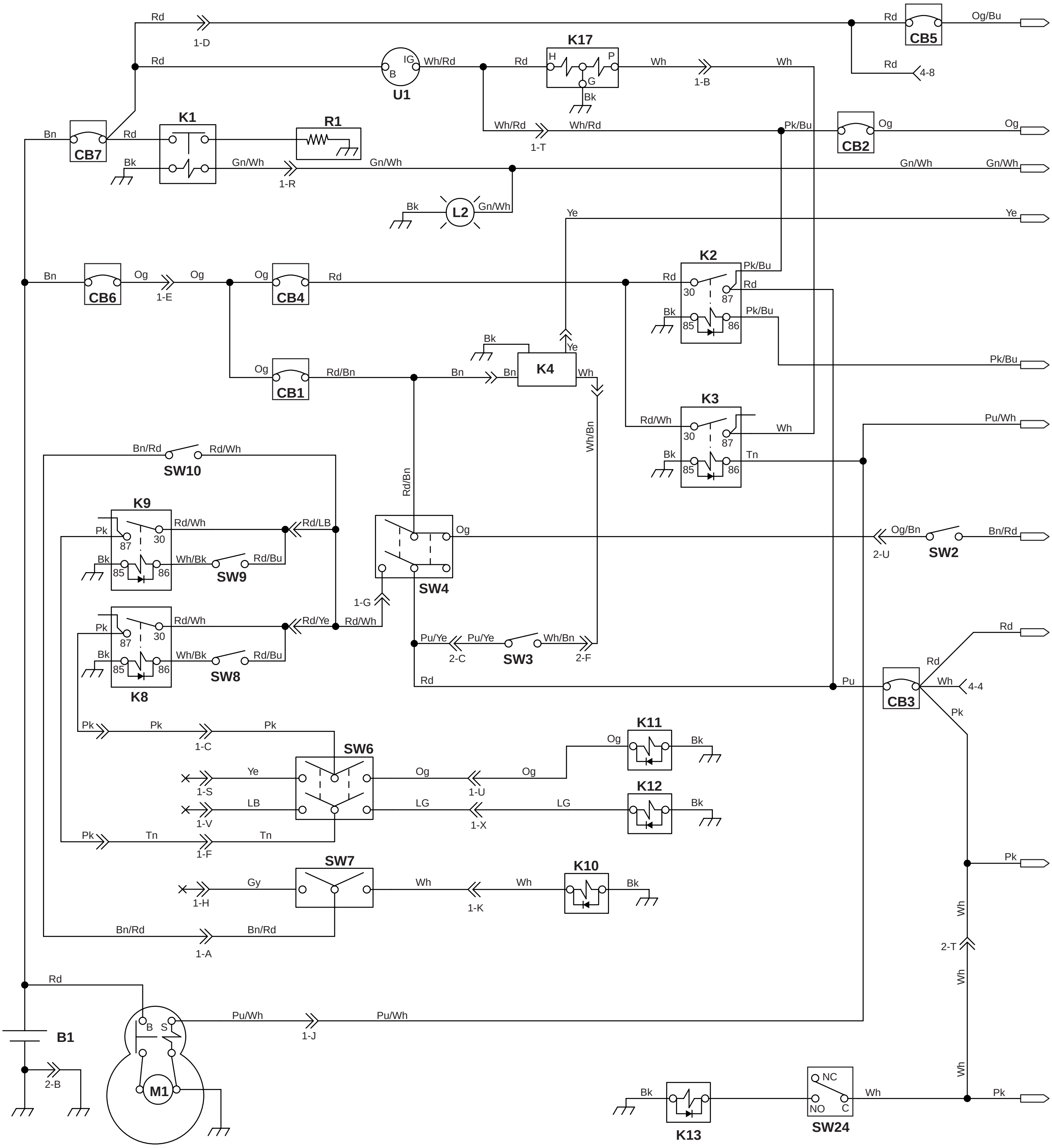



| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 556890 | 2 | Brake Caliper | |
| 2 | 557991 | 1 | • Brake Pad Set | |
| 3 | 557989 | 1 | • Caliper Seal Repair Kit | |
| 4 | 557988 | 4 | • Screw, Caliper Bleed | |
| 5 | 557987 | 4 | • Cap, Bleed Screw | |
| 6 | 557990 | 1 | • Pad Retaining Pin and Spring Kit | |

> Change from previous revision

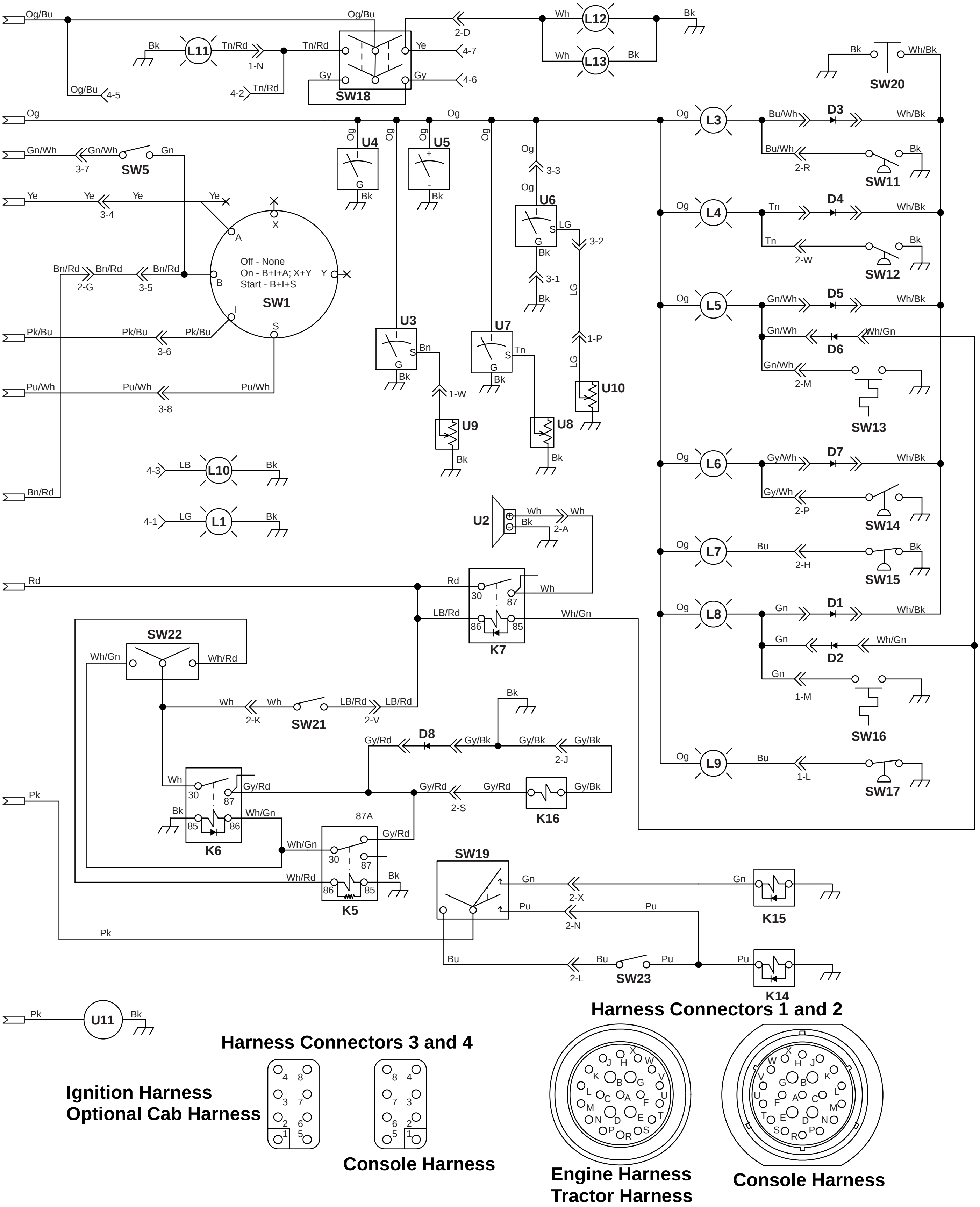
## 67.1 Electrical Schematic

Serial No. 69158 All




**Wire Color Abbreviations**

Bk - Black
Bn - Brown
Bu - Blue
Gn - Green
Gy - Gray
LB - Light Blue
LG - Light Green
Og - Orange
Pk - Pink
Pu - Purple
Rd - Red
Tn - Tan
Wh - White
Ye - Yellow

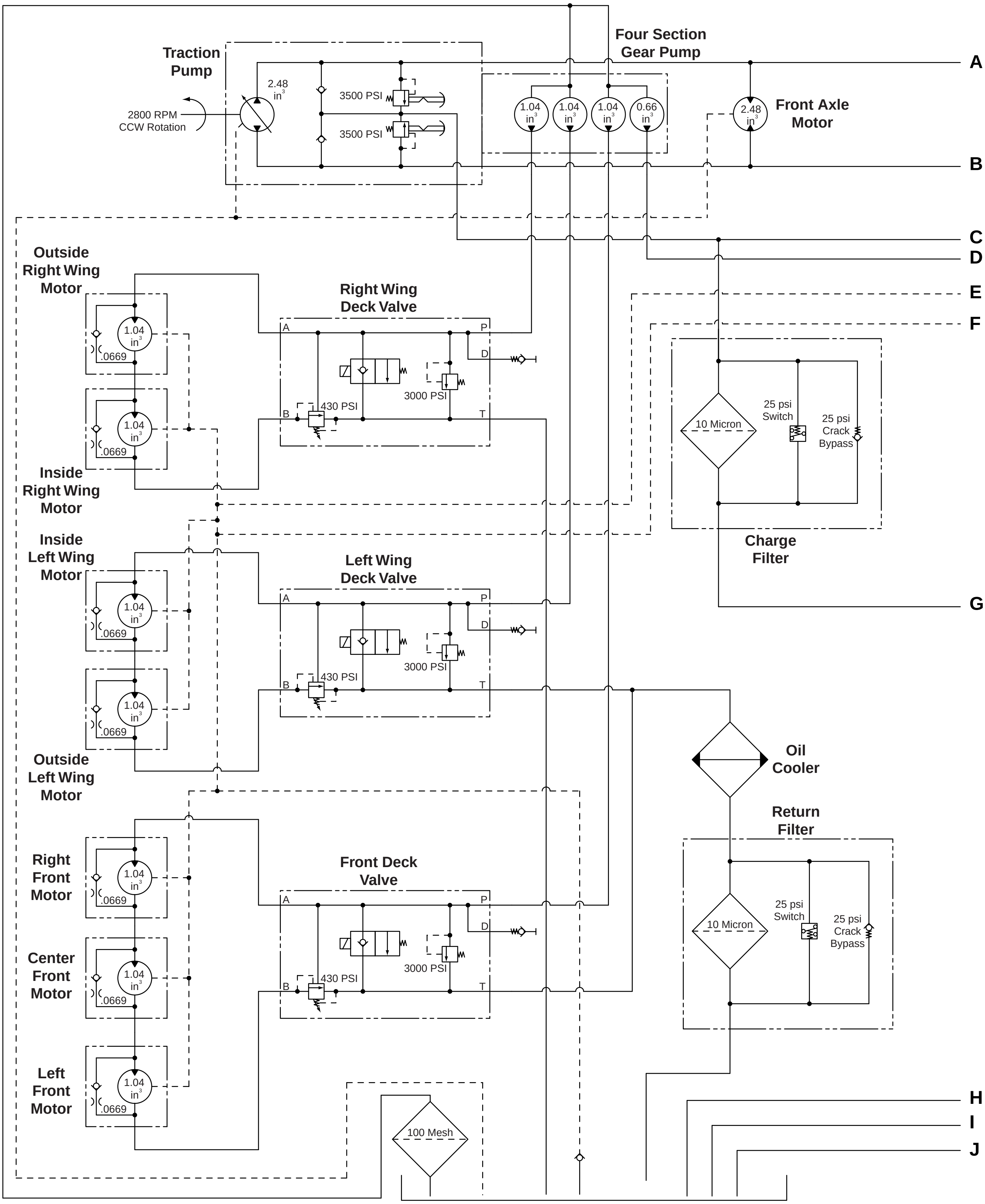

Off - None
On - B+I+A; X+Y
Start - B+I+S
SW1
SW5
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
SW21
SW22
SW23
L1
L3
L4
L5
L6
L7
L8
L9
L10
L11
L12
L13
D1
D2
D3
D4
D5
D6
D7
D8
U2
U3
U4
U5
U6
U7
U8
U9
U10
U11
K5
K6
K7
K14
K15
K16
Harness Connectors 3 and 4
Ignition Harness
Optional Cab Harness
Console Harness
Harness Connectors 1 and 2
Engine Harness
Tractor Harness
Console Harness

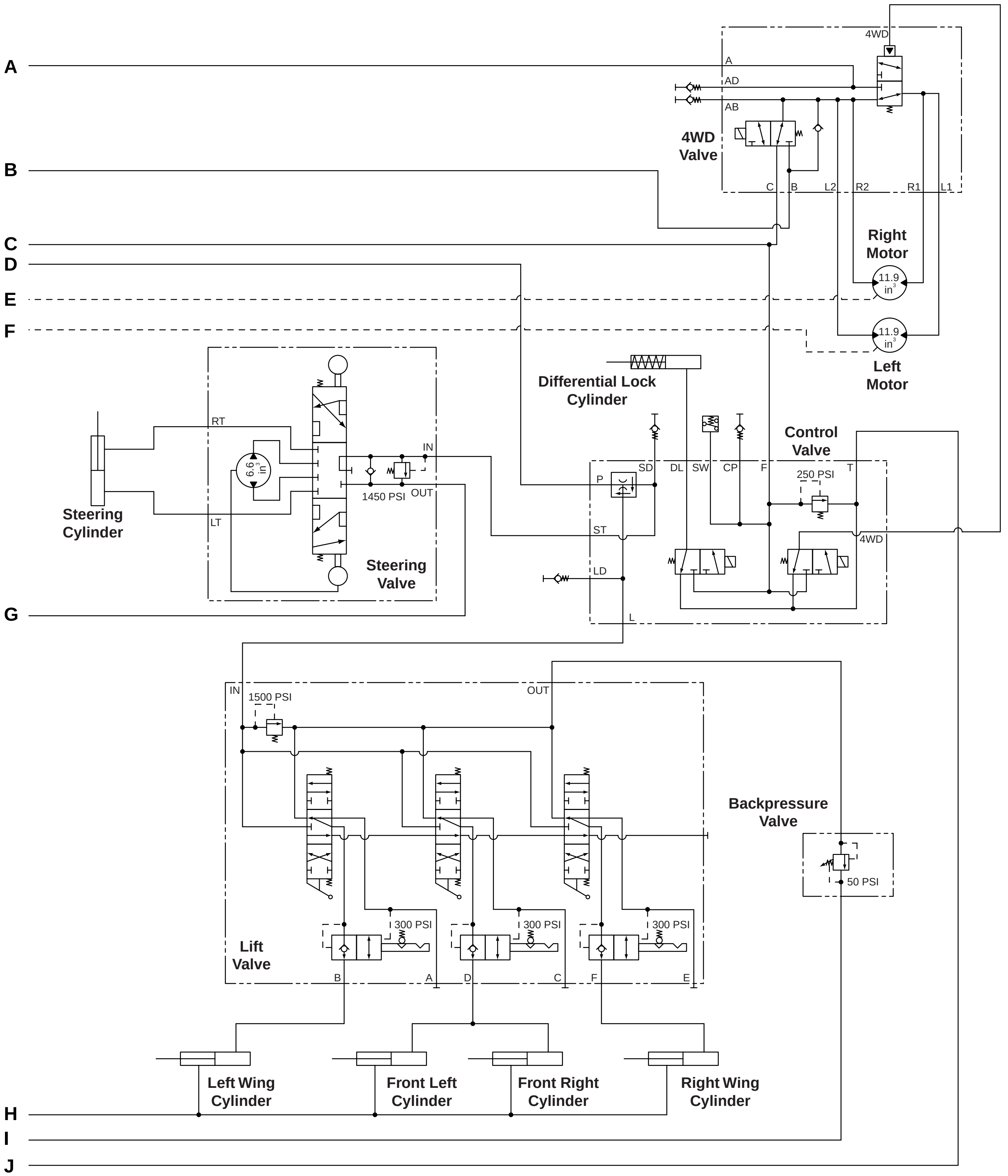
| Item | Reference Illustration | Part Number | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| **B1** | **See 3.1** | N/S | Battery | |
| **CB1** | **See 6.1** | 338601 | 10 Amp Circuit Breaker (Interlock) | |
| **CB2** | **See 6.1** | 338601 | 10 Amp Circuit Breaker (Instruments) | |
| **CB3** | **See 6.1** | 338601 | 10 Amp Circuit Breaker (Cruise, 4WD) | |
| **CB4** | **See 6.1** | 338558 | 30 Amp Circuit Breaker (Accessories) | |
| **CB5** | **See 6.1** | 338558 | 30 Amp Circuit Breaker (Lights) | |
| **CB6** | **See 21.1** | 361439 | 50 Amp Circuit Breaker (Main) | |
| **CB7** | **See 21.1** | 361439 | 50 Amp Circuit Breaker (Alternator) | |
| **D1** | Not Shown | 555846 | Diode, 3 Amp (Water Temp-Test) | Labled A |
| **D2** | Not Shown | 555846 | Diode, 3 Amp (Water Temp-Horn) | Labled B |
| **D3** | Not Shown | 555846 | Diode, 3 Amp (Air Cleaner-Test) | Labled C |
| **D4** | Not Shown | 555846 | Diode, 3 Amp (Return Filter-Test) | Labled D |
| **D5** | Not Shown | 555846 | Diode, 3 Amp (Oil Temperature-Test) | Labled E |
| **D6** | Not Shown | 555846 | Diode, 3 Amp (Oil Temperature-Horn) | Labled F |
| **D7** | Not Shown | 555846 | Diode, 3 Amp (Charge Filter-Test) | Labled G |
| **D8** | Not Shown | 555846 | Diode, 3 Amp (Cruise Control) | Labled H |
| **D9** | Not Shown | 555846 | No Function | Labled J |
| **D10** | Not Shown | 555846 | No Function | Labled K |
| **K1** | **See 43.1** | 131905 | Glow Plug Solenoid | |
| **K2** | **See 43.1** | 365963 | Accessory Relay | Labled 6 |
| **K3** | **See 43.1** | 365963 | Fuel Solenoid Relay | Labled 4 |
| **K4** | **See 43.1** | 3003036 | Seat Time Delay Relay | |
| **K5** | **See 43.1** | 3001307 | Brake Relay | Labled 1 |
| **K6** | **See 43.1** | 365963 | Cruise Control Relay | Labled 2 |
| **K7** | **See 43.1** | 365963 | Horn Relay | Labled 5 |
| **K8** | **See 43.1** | 365963 | Right Wing Limit Switch Relay | |
| **K9** | **See 43.1** | 365963 | Left Wing Limit Switch Relay | |
| **K10** | **See 56.1** | 5001354 | Front Deck Valve Coil | Included in Part No. 1002499 |
| **K11** | **See 56.1** | 5001354 | Right Wing Deck Coil | Included in Part No. 1002499 |
| **K12** | **See 56.1** | 5001354 | Left Wing Deck Coil | Included in Part No. 1002499 |
| **K13** | **See 52.1** | 556849 | Differential Lock Coil | Included in Part No. 1004555 |
| **K14** | **See 52.1** | 556849 | 4WD Coil | Included in Part No. 1004555 |
| **K15** | **See 53.1** | 556849 | 4WD Reverse Coil | Included in Part No. 1003025 |
| **K16** | **See 11.1** | 340783 | Cruise Control Magnet | |
| **K17** | **See 23.1** | 338289 | Fuel Solenoid | |
| **L1** | Not Shown | 555845 | Right Turn Indicator Light | |
| **L2** | Not Shown | 555845 | Glow Plug Active Light | |
| **L3** | Not Shown | 555845 | Air Cleaner Service Light | |
| **L4** | Not Shown | 555845 | Return Filter Service Light | |
| **L5** | Not Shown | 555845 | Hydraulic Oil Temp Warning Light | |
| **L6** | Not Shown | 555845 | Charge Filter Service Light | |
| **L7** | Not Shown | 555845 | Low Charge Pressure Warning Light | |
| **L8** | Not Shown | 555845 | Water Temp Warning Light | |
| **L9** | Not Shown | 555845 | Low Engine Oil Pressure Warning Light | |

| Item | Reference Illustration | Part Number | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| **L10** | Not Shown | 555845 | Left Turn Light | |
| **L11** | **See 43.1** | 555869 | Tail Light | |
| **L12** | Optional | | Head Light | Included in Kit 69128 |
| **L13** | Optional | | Head Light | Included in Kit 69128 |
| **M1** | **See 21.1** | 556988 | Starter Motor | Included in Engine |
| **R1** | **See 21.1** | 556996 | Glow Plugs | Included in Engiine |
| **SW1** | **See 9.1** | 1001958 | Ignition Switch | |
| **SW2** | **See 13.1** | 1000649 | Parking Brake Switch | |
| **SW3** | **See 4.1** | 554390 | Seat Switch | |
| **SW4** | **See 6.1** | 3001372 | PTO Switch | |
| **SW5** | **See 9.1** | 365043 | Glow Plug Switch | |
| **SW6** | **See 6.1** | 3001374 | Wing Mower Switch | |
| **SW7** | **See 6.1** | 3001373 | Front Mower Switch | |
| **SW8** | **See 17.1** | 366989 | Right Wing Deck Limit Switch | |
| **SW9** | **See 17.1** | 366989 | Left Wing Deck Limit Switch | |
| **SW10** | **See 15.1** | 3001079 | Front Deck Limit Switch | |
| **SW11** | **See 19.1** | 364883 | Air Cleaner Service Switch | |
| **SW12** | **See 27.1** | 365974 | Return Filter Service Switch | |
| **SW13** | **See 28.1** | 367551 | Hydraulic Oil Temperature Switch | |
| **SW14** | **See 27.1** | 556419 | Charge Filter Service Switch | |
| **SW15** | **See 26.1** | 132380 | Charge Pressure Switch | |
| **SW16** | **See 21.1** | 3001855 | Water Temperature Switch | |
| **SW17** | **See 21.1** | 554018 | Oil Pressure Switch | Included in Engine |
| **SW18** | Optional | 3001374 | Light Switch | Included in 69129 and Kit 69128 |
| **SW19** | **See 6.1** | 3001370 | 4WD Switch | |
| **SW20** | **See 6.1** | 162739 | Horn / Warning Light Test Switch | |
| **SW21** | **See 12.1** | 1000649 | Brake Pedal Switch | |
| **SW22** | **See 6.1** | 3001371 | Cruise Control Switch | |
| **SW23** | **See 10.1** | 1000649 | Reverse Sensing Switch | |
| **SW24** | | 364882 | Differential Lock Switch | |
| **U1** | **See 21.1** | 5000938 | Alternator (Standard) | Included in Engine |
| **U2** | **See 43.1** | 5000917 | Horn | |
| **U3** | **See 6.1** | 339027 | Tachometer | |
| **U4** | **See 6.1** | 162721 | Volt Meter | |
| **U5** | **See 6.1** | 162723 | Hour Meter | |
| **U6** | **See 9.1** | 3005121 | Temperature Gauge | |
| **U7** | **See 6.1** | 365943 | Fuel Gauge | |
| **U8** | **See 25.1** | 163986 | Fuel Sender | |
| **U9** | **See 22.1** | 163373 | Engine Speed Sensor | |
| **U10** | **See 20.1** | 162722 | Temperature Sender | |
| **U11** | **See 25.1** | 163574 | Fuel Pump | |

## 68.1 Hydraulic Schematic

Serial No. 69158 All

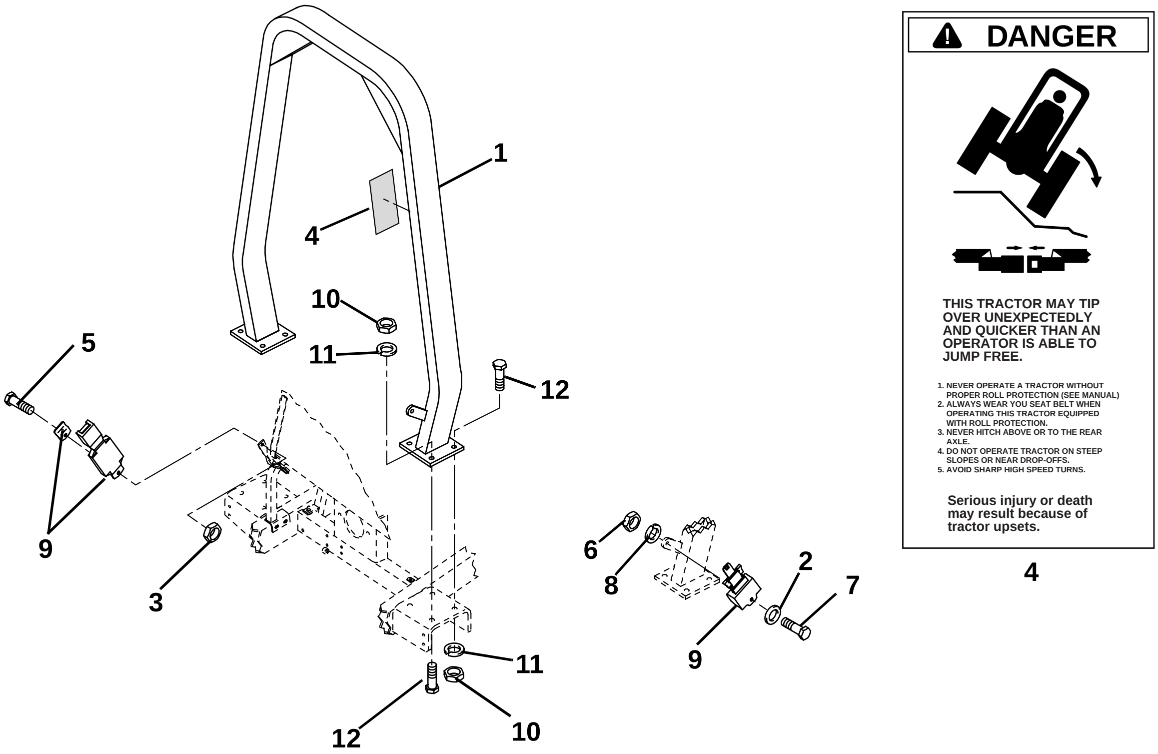



A
B
C
D
E
F
G
H
I
J
4WD
A
AD
AB
4WD Valve
C
B
L2
R2
R1
L1
Right Motor
11.9 in³
Left Motor
Differential Lock Cylinder
Control Valve
SD
DL
SW
CP
F
T
P
250 PSI
4WD
ST
LD
L
RT
IN
6.6 in³
1450 PSI
OUT
LT
Steering Cylinder
Steering Valve
IN
1500 PSI
OUT
Backpressure Valve
50 PSI
300 PSI
Lift Valve
B
A
D
C
F
E
Left Wing Cylinder
Front Left Cylinder
Front Right Cylinder
Right Wing Cylinder

## 69.1 R.O.P.S

Serial No. 69158 All

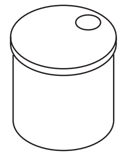
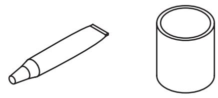
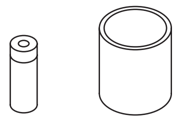
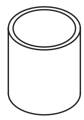
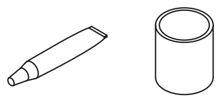
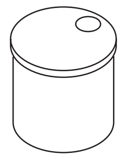
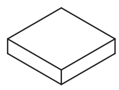
**Units Without Cab**




| Item | Part No. | Qty. | Description | Serial Numbers/Notes |
|---|---|---|---|---|
| 1 | 503641 | 1 | R.O.P.S | |
| 2 | 452010 | 1 | • Flat Washer, 7/16 | |
| 3 | 444762 | 1 | • Locknut, 3/8-16 Hex | |
| 4 | 555891 | 1 | • Decal, Danger | |
| 5 | 400262 | 1 | • Screw, 3/8-16 x 1” Hex Head | |
| 6 | 443114 | 1 | • Nut, 7/16-14 Hex | |
| 7 | 400336 | 1 | • Screw, 7/16-14 x 1-1/4” Hex Head | |
| 8 | 446148 | 1 | • Lockwasher, 7/16 Heavy | |
| 9 | 555892 | 1 | • Seat Belt | |
| 10 | 443126 | 8 | • Nut, 5/8-11 Hex | |
| 11 | 446166 | 8 | • Lockwasher, 5/8 Heavy | |
| 12 | 400616 | 8 | • Screw, 5/8-11 x 2” Hex Head | |

> Change from previous revision

# *Fluids and Compounds*

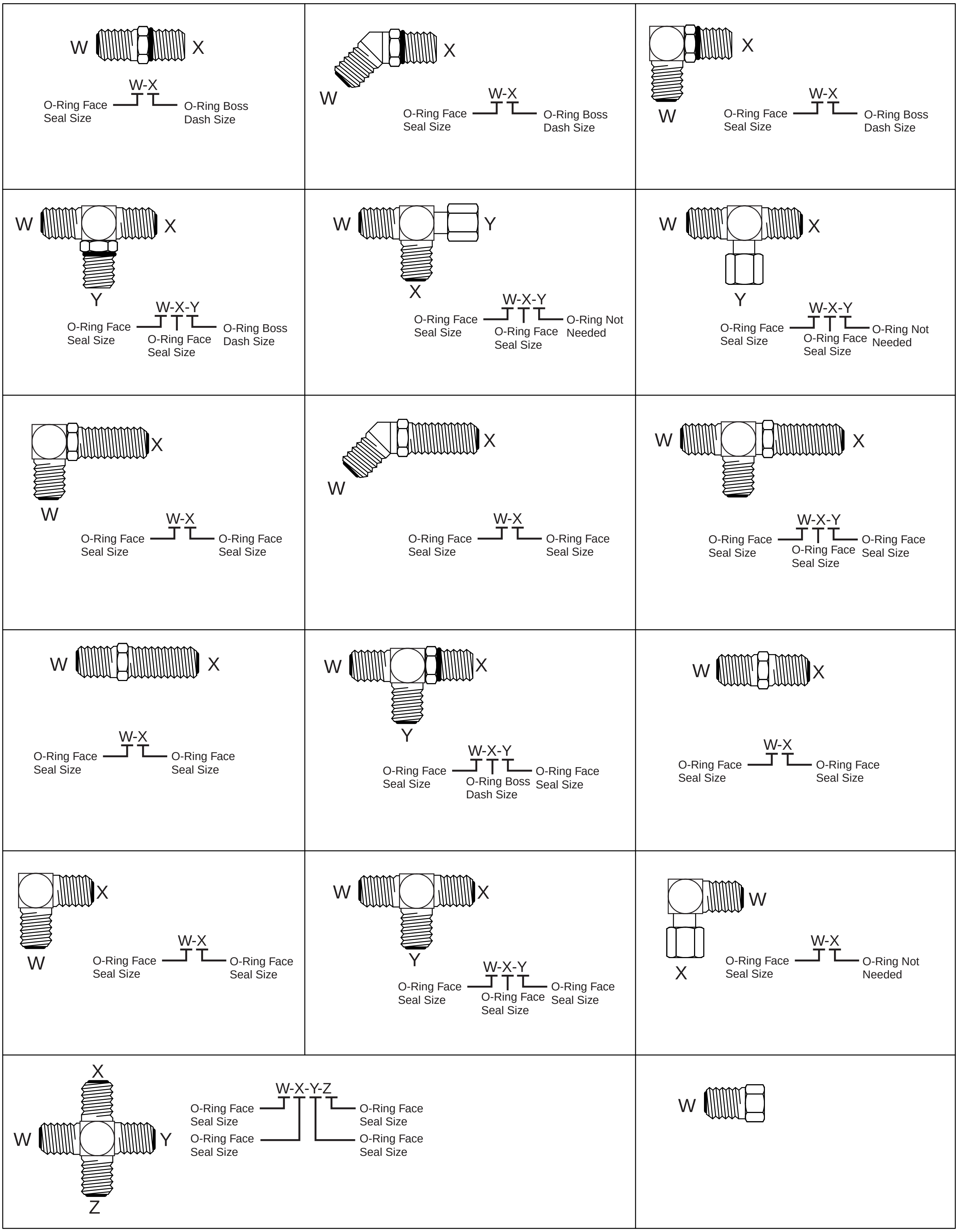
| Part No. | Description | |
|---|---|---|
| | **Hydraulic Fluid*** |  |
| 5001405 | Two 2-1/2 Gallon Container of ISO VG68 Oil | |
| 5001404 | One 5 Gallon Pail of ISO VG68 Oil | |
| 502696 | Two 2-1/2 Gallon Container of 10W30 Oil | |
| 502693 | One 5 Gallon Pail of 10W30 Oil | |
| 503409 | Two 2-1/2 Gallon Container of ATF Fluid | |
| 503407 | One 5 Gallon Pail of ATF Fluid | |
| | **2-Cycle Oil** |  |
| 554600 | Twenty Four 16 Ounce Plastic Container | |
| 554599 | Twenty Four 8 Ounce Plastic Container | |
| | **Grease** |  |
| 5000067 | One 5 Gallon Pail OO-Grease | |
| 5000068 | Twenty Four 8 Ounce Tube OO-Grease | |
| | **Paint** |  |
| 5003469 | 16 Ounce Gray Aerosol | |
| 554598 | Six 12 Ounce Orange Aerosol | |
| 546408 | Twelve 1 Quart Can Orange | |
| 546409 | Two 1 Gallon Can Orange | |
| | **Lapping Compound** |  |
| 5002488 | One 10 Pound Pail of 80 Grit | |
| 5002490 | One 25 Pound Pail of 80 Grit | |
| 5002489 | One 10 Pound Pail of 120 Grit | |
| 5002491 | One 25 Pound Pail of 120 Grit | |
| | **Specialty Compound** |  |
| 365422 | 5.3 Ounce Tube of Electrical Insulating Gel | |
| 5001581 | 14 Ounce Can of Lubriplate Multi Lube A | |
| | **Biodegradable Hydraulic Fluid*** |  |
| 5003102 | One 55 Gallon Drum TTCSP Greens Care 68 | |
| 5003103 | One 5 Gallon Pail TTCSP Greens Care 68 | |
| 5003105 | One 55 Gallon Drum TTCSP Greens Care 46 | |
| 5003104 | One 5 Gallon Pail TTCSP Greens Care 46 | |
| 5003106 | Twenty Four 14 Ounce Tube Greens Care Grease | |
| | **O-Ring Kit** |  |
| 5002452 | SAE O-Ring Boss (3/32 ~ 2” Tube O.D.) | |
| 5002453 | Common O-Ring Kit | |
| 5002454 | O-Ring Face Seal ORFS (-4 ~ -24 ORS Tube Size) | |
| | **Fuel Cans** | |
| 554948 | One 2.5 Gallon Plastic | |
| 554949 | One 5 Gallon Plastic | |
| | **Right Start Kit for New Machines** | |
| | See your local TTCSP dealer | |
| | **On-Time Maintenance Kit** | |
| | See your local TTCSP dealer | |

* Refer to the Operator’s manual or the Parts & Maintenance Manual for the correct hydraulic oil requirements for your machine.

Textron Turf Care And Specialty Products offers a High Usage Parts Catalog illustrating commonly used Parts through easy to read line Drawings. See your local TTCSP dealer for a copy.

## 70.1 O-Ring Chart

Serial No. All



| Adapter Part Number. | Dash Size | Adapter Type | (W) O-Ring | (X) O-Ring | (Y) O-Ring | (Z) O-Ring |
|---|---|---|---|---|---|---|
| 339979 | 6-6 | Straight Adapter | 339909 | 339897 | | |
| 339983 | 8-6 | Straight Adapter | 339910 | 339897 | | |
| 339984 | 8-8 | Straight Adapter | 339910 | 339898 | | |
| 339989 | 10-10 | Straight Adapter | 339911 | 339899 | | |
| 340003 | 6-6 | Straight Adapter | 339906 | 339897 | | |
| 340029 | 8-8 | 45° Adapter | 339910 | 339898 | | |
| 340033 | 10-10 | 45° Adapter | 339911 | 339899 | | |
| 340061 | 6-6 | 90° Adapter | 339909 | 339897 | | |
| 340065 | 8-6 | 90° Adapter | 339910 | 339897 | | |
| 340066 | 8-8 | 90° Adapter | 339910 | 339898 | | |
| 340070 | 10-10 | 90° Adapter | 339911 | 339899 | | |
| 340074 | 12-12 | 90° Adapter | 339912 | 339900 | | |
| 340077 | 16-16 | 90° Adapter | 339913 | 339901 | | |
| 340078 | 6-6 | 90° Adapter | 339909 | 339897 | | |
| 340089 | 16-20 | 90° Adapter | 339913 | 339902 | | |
| 340119 | 6-6-6 | Swivel Run Tee | 339909 | 339909 | | |
| 340120 | 8-8-8 | Swivel Run Tee | 339910 | 339910 | | |
| 340144 | 8-8-8 | Swivel Branch Tee | 339910 | 339910 | | |
| 340215 | 6-6-6 | Bulkhead Run Tee | 339909 | 339909 | 339909 | |
| 340263 | 6-6-6 | Straight Thread Run Tee | 339909 | 339897 | 339909 | |
| 340269 | 10-12-12 | Straight Thread Run Tee | 339911 | 339899 | 339912 | |

| SAE Boss O-Rings | | | ORS Face Seal O-Rings | | |
|---|---|---|---|---|---|
| Dash Size | Thread Size | O-Ring | Tube Size | Thread Size | O-Ring |
| 2 | 5/16-24 | 459290 | 4 | 9/16-18 | 339908 |
| 3 | 3/8-24 | 459291 | 6 | 11/16-16 | 339909 |
| 4 | 7/16-20 | 339896 | 8 | 13/16-16 | 339910 |
| 5 | 1/2-20 | 459293 | 10 | 1-14 | 339911 |
| 6 | 9/16-18 | 339897 | 12 | 1 3/16-12 | 339912 |
| 8 | 3/4-16 | 339898 | 16 | 1 7/16-12 | 339913 |
| 10 | 7/8-14 | 339899 | 20 | 1 11/16-12 | 339914 |
| 12 | 1 1/16-12 | 339900 | 24 | 2-12 | 339915 |
| 14 | 1 3/16-12 | 459296 | | | |
| 16 | 1 5/16-12 | 339901 | | | |
| 20 | 1 5/8-12 | 339902 | | | |
| 24 | 1 7/8-12 | 339903 | | | |
| 32 | 2 1/2-12 | 339904 | | | |

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